Index to Volume 103–1993
and Supplements: 58, 59, 60

# THE Laryngoscope

FOUNDED IN 1896

Editor: J. Gershon Spector, MD

Publisher: The American Laryngological, Rhinological and Otological Society, Inc.
10 S. Broadway, St. Louis, MO 63102

# AUTHOR/TITLE


## A

Aberrant Expression of Epidermal Growth Factor Receptor in Aural Cholesteatoma—Bujía, J., Holly, A., *et al.* ..... 326

Abnormalities of the Neonatal Ear: Otoscopic Observations, Histologic Observations, and a Model for Contamination of the Middle Ear by Cellular Contents of Amniotic Fluid—Eavey, R.D. ..... Suppl. 58

Abram, A.C., Nabizadeh, S., Feldman, P.S., Cantrell, R.W., Levine, P.A.: Fine Needle Aspiration (FNA) in Diagnosing Recurrent Squamous Cell Carcinoma of the Head and Neck: Truth or Consequences? ..... 1073

Abramson, A.L., Gilberto, E., Mullooly, V., France, K., Alperstein, P., Isenberg, H.D.: Microbial Adherence to and Disinfection of Laryngoscopes Used in Office Practice ..... 503

Ackerstaff, A.H., Souren, T., van Zandwijk, N., Balm, A.J.M., Hilgers, F.J.M.: Improvements in the Assessment of Pulmonary Function in Laryngectomized Patients ..... 1391

Acoustic Neuroma Volume: MRI-Based Calculations and Clinical Implications—Long, S.A., Arriaga, M., *et al.* ..... 1093

Acute Epiglottitis in the Adult: Experience With a Seasonal Presentation—Kass, E.G., McFadden, E.A., *et al.* ..... 841

Adipose Myringoplasty in Children—Deddens, A.E., Muntz, H.R., *et al.* ..... 216

Ahn, J.M., Huang, C-C., Cho, H.T.: Localization of Interleukin-1 in Human Squamous Cell Carcinomas of the Head and Neck ..... 529

Airway Resistance and Work of Breathing in Tracheostomy Tubes—Mullins, J.B., Templer, J.W., *et al.* ..... 1367

Analysis-by-Synthesis Approach to the Estimation of Vocal Cord Polyp Features—Koizumi, T., Taniguchi, S., *et al.* ... 1035

Anand, V.K., Leonetti, J.P., Al-Mefty, O.: Neurovascular Considerations in Surgery of Glomus Tumors With Intracranial Extensions ..... 722

Andrea, M.: Microsurgical Bipolar Cautery Tonsillectomy .. 1177

Applebaum, E.L.: Hydroxylapatite Prosthesis for Defects of the Incus Long Process ..... 330

April, M.M., Zinreich, S.J., Baroody, F.M., Naclerio, R.M.: Coronal CT Scan Abnormalities in Children With Chronic Sinusitis ..... 985

Aronson, A.E., McCaffrey, T.V., Litchy, W.J., Lipton, R.J.: Botulinum Toxin Injections for Adductor Spastic Dysphonia: Patient Self-Ratings of Voice and Phonatory Effort After Three Successive Injections ..... 683

Arriaga, Maj M.A., Brackmann, D.E., Hitselberger, W.E.: Extended Middle Fossa Resection of Petroclival and Cavernous Sinus Neoplasms ..... 693

Atypical Hearing Loss in Acoustic Neuroma Patients—Selesnick, S.H., Jackler, R.K. ..... 437

Austin, J.R., Peskind, S.P., Austin, S.G., Rice, D.H.: Idiopathic Facial Nerve Paralysis: A Randomized Double Blind Controlled Study of Placebo Versus Prednisone ..... 1326

## B

Baredes, S., Leeman, D.J., Chen, T.S., Mohit-Tabatabai, M.A.: Significance of Tumor Thickness in Soft Palate Carcinoma 389

Barona de Guzmán, R., Martorell, M.A., Basterra, J., Armengot, M., Alvarez-Valdés, R., Garin, L.: Prognostic Value of Histopathological Parameters in 51 Supraglottic Squamous Cell Carcinomas ..... 538

Barzan, L., Comoretto, R.: Hemipharyngectomy and Hemilaryngectomy for Pyriform Sinus Cancer: Reconstruction With Remaining Larynx and Hypopharynx and With Tracheostomy ..... 82

Bende, M., Bergman, B., Sjögren, C.: Nasal Mucosal Congestion After Treatment With Bromocriptine ..... 1142

Benecke, J.E., Jr.: Facial Nerve Dysfunction in Osteopetrosis 494

Berke, G.S., Ye, M., Block, R.M., Sloan, S., Sercarz, J.: Orthotopic Laryngeal Transplantation: Is It Time? ..... 857

Bertrand, B., Eloy, Ph., Cornelis, J.Ph., Gosseye, S., Clotuche, J., Gilliard, Cl.: Juvenile Aggressive Cemento-Ossifying Fibroma: Case Report and Review of the Literature ..... 1385

Biochemical Aspects of Autologous Fibrin Glue Derived From Ammonium Sulfate Precipitation—Park, M.S., Cha, C.I. ... 193

Blackwell, K., Castro, D.J., Saxton, R.E., Ennevor, S., Schiller, V., Lufkin, R.B., *et al.*: Real-Time Intraoperative Ultrasonography as a Monitoring Technique for Nd:YAG-Laser Palliation of Unresectable Head and Neck Tumors: Initial Experience ..... 559

Blastomycosis in Otolaryngology: Review of a Large Series—Reder, P.A., Neel, H.B. III ..... 53

Bodenstein, N.P., McIntosh, W.A., Vlantis, A.C., Urquhart, A.C.: Clinical Signs of Orbital Ischemia in Rhino-Orbitocerebral Mucormycosis ..... 1357

Bony Dehiscence Between Singular Canal and Round Window Niche—Sato, H., Takahashi, H., *et al.* ..... 78

Botulinum Toxin Injection for Adductor Spastic Dysphonia: Patient Self-Ratings of Voice and Phonatory Effort After Three Successive Injections—Aronson, A.E., McCaffrey, T.V., *et al.* ..... 683

Bressler, K., Shelton, C.: Ear Foreign-Body Removal: A Review of 98 Consecutive Cases ..... 367

Broniatowski, M., Azar, K., Davies, C.R., Jacobs, G.B., Tucker, H.M.: Electronic Control of Laryngeal Spasm. II. Selective Blockage of Glottic Adduction by a Closed-Loop Circuit in the Canine ..... 734

Brookhouser, P.E., Worthington, D.W., Kelly, W.J.: Middle Ear Disease in Young Children With Sensorineural Hearing Loss ..... 371

Bujía, J., Holly, A., Schillilng, V., Negri, B., Pitzke, P., Schulz, P.: Aberrant Expression of Epidermal Growth Factor Receptor in Aural Cholesteatoma ..... 326

Burgess, LTC L.P.A.: Laryngeal Reconstruction Following Vertical Partial Laryngectomy ..... 109

Burnam, J.A.: Subcutaneous Pedicled Extension Flap: A New Development in Random Flaps ..... 1293

## C

Canal Wall Reconstruction: A Newer Implantation Technique—Wiet, R.J., Harvey, S.A., *et al.* ..... 594

Canalis, R.F., Martin, N., Black, K., Ammirati, M., Cheatham, M., Bloch, J., *et al.*: Lateral Approach to Tumors of the Craniovertebral Junction ..... 343

Carrasco, V.N., Prazma, T., Biggers, W.P.: Safe, Effective Anesthetic Technique for Outpatient Myringotomy Tube Placement ..... 92

Cartilage Tympanoplasty for Management of Retraction Pockets and Cholesteatomas—Poe, D.S., Gadre, A.K. ..... 614

Changing Clinical Presentation of Acoustic Tumors in the MRI Era—Selesnick, S.H., Jackler, R.K. *et al.* ..... 431

Cholinergic Agents in the Laryngeal Chemoreflex Model of Sudden Infant Death Syndrome—Rimell, F., Goding, G.S., Jr., *et al.* ..... 623

Clayman, G.L., Taylor, D.L., Liu, F.J., Lavedan, P., Savage, H.E., Schantz, S.P.: Serum and Acute Phase Protein Modulation of the Effector Phase of Lymphokine-Activated Killer Cells ..... 299

Clinical Comparisons of Posturography and Electronystagmography—Keim, R.J. ..... 713

Clinical Differentiation Between Vocal Cord Paralysis and Vocal Cord Fixation Using Electromyography—Rontal, E., Rontal, M., *et al.* ..... 133

Clinical Signs of Orbital Ischemia in Rhino-Orbitocerebral Mucormycosis—Bodenstein, N.P., McIntosh, W.A., *et al.* .. 1357

Clinical Staging for Primary Malignancies of the Supraglottic Larynx—Zamora, R.L., Harvey, J.E., *et al.* ..... 69

Close, L.G., Morrish, T.N., Nguyen, P.: Intraoperative Versus Interstitial Radiotherapy: A Comparison of Morbidity in the Head and Neck ..... 231

Cole, P., Savard, P., Miljeteig, H., Haight, J.S.J.: Resistance to Respiratory Airflow of the Extrapulmonary Airways ..... 447

Collins, S.: Decreasing the Risk of Implantation of Cancer Cells Intraoperatively ..... 825

Comparison of Suture Versus Laser-Assisted Microvascular Anastomosis (LAMA) in the Pig Buttock Flap Model—Wenig, B.L. ..... 1002

Comparison of Two Methods of Tonsillectomy—Leach, J., Manning, S., *et al.* ..... 619

Compatibility of the Argon and KTP Lasers With Middle Ear Implants—Wanamaker, H.H., Silverstein, H. ..... 609

Complications of Laryngeal Framework Surgery (Phonosurgery)—Tucker, H.M., Wanamaker, J., *et al.* ..... 525

Composite Graft Tympanoplasty in the Treatment of Ears With Advanced Middle Ear Pathology—Milewski, C. ..... 1352

Composite TORPs and PORPs for Ossicular Reconstruction—Silverstein, H., Wanamaker, H.H., *et al.* ..... 94

Computed Tomography, Magnetic Resonance Imaging, and Electromyographic Studies of Tensor Veli Palatini Muscles in Patients With Nasopharyngeal Carcinoma—Su, C-Y., Hsu, S-P., *et al.* ..... 673

Computer-Aided 3-D Reconstruction and Measurement of the Facial Canal and Facial Nerve. I. Cross-Sectional Area and Diameter: Preliminary Report—Nakashima, S., Sando, I., *et al.* ..... 1150

Configuration of the Glottis in Laryngeal Paralysis. I: Clinical Study—Woodson, G.E. ..... 1227

Configuration of the Glottis in Laryngeal Paralysis: II: Animal Experiments—Woodson, G.E. ..... 1227

Congenital Perilymphatic Fistula and Associated Middle Ear Abnormalities—Weber, P.C., Perez, B.A., *et al.* ..... 160

Contact Diode Laser Microvascular Anastomosis—Lewis, W.J., Uribe, A. ..... 850

Controlling the Caloric Labyrinthine Stimulus: Restoring Surface Temperature—Proctor, L., Frazer, K., *et al.* ..... 679

Coronal CT Abnormalities in Children With Chronic Sinusitis—April, M.M., Zinreich, S.J., *et al.* ..... 985

Costochondral Pharyngeal Implants for Velopharyngeal Insufficiency—Terris, D.J., Goode, R.L. ..... 565

Cremers, C.W.R.J., Marres, H.A.M., Brunner, H.G.: Neo-Oval Window Technique and Myringo-Chorda-Vestibulopexy in the BOR Syndrome ..... 1186

Cunningham, M.J., Eavey, R.D., Krouse, J.H., Kiskaddon, R.M.: Tympanostomy Tubes: Experience With Removal .. 659

Cutting the Middle Meatal Window—Davidson, T.M. ..... 1179

## D

Davidson, T.M.: Cutting the Middle Meatal Window ..... 1179

de la Fuente-Arjona, L., Marco-Algarra, J.: Vestibular Decruitment: An Indicator of Central Pathology? ..... 793

de Mello-Filho, F.V., Mamede, R.C.M., Sader, A.A., *et al.*: Use of the Platysma Myocutaneous Flap for Cervical Trachea Reconstruction: An Experimental Study in Dogs ..... 1161

de Souza, F.M.: Role of Subtotal Thyroidectomy in the Management of the Follicular Neoplasm of the Thyroid ..... 477

Decreasing the Risk of Implantation of Cancer Cells Intraoperatively—Collins, S. ..... 825

Deddens, A.E., Muntz, H.R., Lusk, R.P.: Adipose Myringoplasty in Children ..... 216

Determination of Vocal Fold Mucosal Wave Velocity in an In Vivo Canine Model—Sloan, S.H., Berke, G.S., *et al.* ..... 947

Determining the Site of Airway Collapse in Obstructive Sleep Apnea With Airway Pressure Monitoring—Katsantonis, G.P., Moss, K., *et al.* ..... 1126

Development of High Endothelial Venule-Like Characteristics in the Spinal Modiolar Vein Induced by Viral Labyrinthitis—Stearns, G.S., Keithley, E.M., *et al.* ..... 890

Differences in Dendritic Cells in Congenital and Acquired Cholesteatomas—Frankel, S., Berson, S., *et al.* ..... 1214

Direct Application of Basic Fibroblast Growth Factor Improves Tympanic Membrane Perforation Healing—Fina, M., Baird, A., *et al.* ..... 804

Disher, M.J., Esclamado, R.M., Sullivan, M.J.: Indications for the AO Plate With a Myocutaneous Flap Instead of Revascularized Tissue Transfer for Mandibular Reconstruction 1264

DNA Analysis of Head and Neck Squamous Cell Carcinoma by Flow Cytometry—Lampe, H.B. ..... 637

DNA- and Viral-Mediated Gene Transfer in Follicular Cells: Progress Toward Gene Therapy of the Thyroid—O'Malley, B.W. Jr., Ledley, F.D. ..... 1084

Does Early Expansion Surgery Have a Role in the Management of Congenital Subglottic Stenosis?—Rosenfeld, R.M., Bluestone, C.D. ..... 286

Dornhoffer, J.L., Waner, M., Arenberg, I.K., Montague, D.: Immunoperoxidase Study of the Endolymphatic Sac in Meniere's Disease ..... 1027

Double-Barreled (Diversionary) Tracheostomy: Long-Term Results and Reversibility—Tucker, H.M. ..... 212

Drake, A.F., Davis, J.U., Warren, D.W.: Nasal Airway Size in Cleft and Noncleft Children ..... 915

Drake, A.F., Fischer, N.D.: Peritubal Adenoidectomy ..... 1291

Drake, W. III, Li, Y., Rothschild, M.A., Wu, B-L., Biller, H.F., Sanders, I.: Technique for Displaying the Entire Nerve Branching Pattern of a Whole Muscle: Results in 10 Canine Posterior Cricoarytenoid Muscles ..... 141

Drug-Induced, Life-Threatening Angioedema Revisited—Thompson, T., Frable, M.A.S. ..... 10

## E

Ear Foreign-Body Removal: A Review of 98 Consecutive Cases—Bressler, K., Shelton, C. ..... 367

Easy Bruisability, Aspirin Intolerance, and Response to DDAVP—Lekas, M.D., Crowley, J.P. ..... 156

Eavey, R.D.: Abnormalities of the Neonatal Ear: Otoscopic

Observations, Histologic Observations, and a Model for Contamination of the Middle Ear by Cellular Contents of Amniotic Fluid ..... Suppl. 58

Edelstein, D.R., Avner, S.E., Chow, J.M., Duerksen, R.L., Johnson, J., Ronis, M., *et al.*: Once-A-Day Therapy for Sinusitis: A Comparison Study of Cefixime and Amoxicillin ..... 33

Effect of a Topical Vasoconstrictor on Computed Tomography of Paranasal Sinus Disease—Stringer, S.P., Mancuso, A.A., *et al.* ..... 6

Effect of Cricopharyngeus Myotomy on Postlaryngectomy Pharyngeal Contraction Pressures—Horowitz, J.B., Sasaki, C.T. ..... 138

Effect of Specific Bacteria on Lymphocyte Proliferation in Diseased and Nondiseased Tonsils—Koch, R.J., Brodsky, L. ..... 1020

Effect of Tonsillectomy and Adenoidectomy on Neutrophil Chemotaxis—Sennaroğlu, L., Önerci, M., *et al.* ..... 1349

Effects of Acid on the Larynx of the Maturing Rabbit and Their Possible Significance to the Sudden Infant Death Syndrome—Wetmore, R.F. ..... 1242

Effects of Cyanoacrylate Tissue Adhesives on Cartilage Graft Viability—Quatela, V.C., Futran, N.D., *et al.* ..... 798

Effects of Cyclosporin A on Transplanted Rat Allografts—Strome, M., Darrell, J., *et al.* ..... 394

Electromyographic Recording of Tensor and Levator Veli Palatini Muscles: A Modified Transnasal Insertion Method—Su, C-Y., Hsu, S-P., *et al.* ..... 459

Electronic Control of Laryngeal Spasm. II. Selective Blockage of Glottic Adduction by a Closed-Loop Circuit in the Canine—Broniatowski, M., Azar, K., *et al.* ..... 734

El-Kashlan, H.K., Noorily, A.D., Niparko, J.K., Miller, J.M.: Metabolic Activity of the Central Auditory Structures Following Prolonged Deafferentation ..... 399

Endoscopic Frontal Recess and Frontal Sinus Ostium Dissection—Loury, M.C. ..... 455

Endoscopic-Guided Otosurgery in the Prevention of Residual Cholesteatomas—Thomassin, J.M., Korchia, D., *et al.* .... 939

Endoscopic Human Olfactory Biopsy Technique: A Preliminary Report—Lanza, D.C., Moran, D.T., *et al.* ..... 815

Endoscopic 'Second Look' Mastoidoscopy to Rule Out Residual Epitympanic/Mastoid Cholesteatoma—McKennan, K.X. ..... 810

Endoscopic Sinus Surgery: 4-Year Follow-up on the First 100 Patients—Schaitkin, B., May, M., *et al.* ..... 1117

Endothelial Cell Growth Factor (ECGF) Application to Irradiated Soft Tissue—Hom, D.B., Assefa, G., *et al.* ..... 165

Eosinophil Cationic Protein in the Nasal Secretions of Patients With Mite Allergic Rhinitis—Nishioka, K., Saito, C., *et al.* ..... 189

Eton, D., Ahn, S., Kitada, S., Shim, V., Elis, D.G., Lee, D.: Pitfalls in Evaluation of Photosensitizing Agents: An Example With Q-Switch II Dye ..... 1284

Evidence of IgE-Mediated Hypersensitivity in Allergic Fungal Sinusitis—Manning, S.C., Mabry, R.L., *et al.* ..... 717

Excision of Rhinophyma With Nd:YAG Laser: A New Technique—Wenig, B.L., Weingarten, R. ..... 101

Experimental Reconstruction of Anterior and Circumferential Defects of the Cervical Trachea—Petroianu, A., Barbosa, A.J.A. ..... 1259

Extended Middle Fossa Resection of Petroclival and Cavernous Sinus Neoplasms—Arriaga, Maj M.A., Brackmann, D.E., *et al.* ..... 693

## F

Facial Nerve Dysfunction in Osteopetrosis—Benecke, J.E., Jr. ..... 494

Facial Nerve Management in Cranial Base Surgery—Janecka, I.P., Sekhar, L.N., *et al.* ..... 291

Facial Nerve Monitoring in Surgery for Congenital Auricular Atresia—Linstrom, C.J., Meiteles, L.Z. ..... 406

Facial Nerve Morbidity Following Parotid Surgery for Benign Disease: The Cleveland Clinic Foundation Experience—Mehle, M.E., Kraus, D.H., *et al.* ..... 386

Facial Nerve Near the External Auditory Meatus in Man: Computer Reconstruction Study—Preliminary Report—Yasumura, S., Takahashi, H., *et al.* ..... 1043

Facial Neuroma of the Cerebellopontine Angle and the Internal Auditory Canal—Fagan, P.A., Misra, S.N., *et al.* ..... 442

Factors Affecting the Development of Cerebrospinal Fluid Leak and Meningitis After Translabyrinthine Acoustic Tumor Surgery—Rodgers, G.K., Luxford, W.M. ..... 959

Fagan, P.A., Misra, S.N., Doust, B.: Facial Neuroma of the Cerebellopontine Angle and the Internal Auditory Canal 442

Fibrin Binding, Fibrinolytic and Fibrinogenolytic Activity of Plasminogen Activator Derived From the Paranasal Mucous Membrane of Humans—Yamashiro, Y., Nakamura, M., *et al.* ..... 197

Fina, M., Baird, A., Ryan, A.: Direct Application of Basic Fibroblast Growth Factor Improves Tympanic Membrane Perforation Healing ..... 804

Fine Needle Aspiration (FNA) in Diagnosing Recurrent Squamous Cell Carcinoma of the Head and Neck: Truth or Consequences?—Abram, A.C., Nabizadeh, S., *et al.* ..... 1073

Frankel, S., Berson, S., Godwin, T., Han, J.C., Parisier, S.C.: Differences in Dendritic Cells in Congenital and Acquired Cholesteatomas ..... 1214

Free Jejunal Autografts for Immediate Voice Restoration Following Laryngectomy—Grasl, M.Ch. ..... 96

Fried, M.P., Jolesz, F.A.: Image-Guided Intervention for Diagnosis and Treatment of Disorders of the Head and Neck ... 924

Friedman, M., Roberts, N., Kirshenbaum, G.L., Colombo, J.: Nodal Size of Metastatic Squamous Cell Carcinoma of the Neck ..... 854

Functional Endonasal Sinus Surgery in Adults and Children—Lazar, R.H., Younis, R.T., *et al.* ..... 1

Functional Endoscopic Surgery in Children: A Retrospective Analysis of Results—Parsons, Col D.S., Phillips, Capt S.E. 899

## G

Galvanically-Induced Vestibulo-Ocular Reflex in the Cat—Storper, I.S., Honrubia, V., *et al.* ..... 1108

Gates, G.A.: Nerve Excitability Testing: Technical Pitfalls and Threshold Norms Using Absolute Values ..... 379

Glasscock, M.E. III, Jackson, C.G.: Neurotologic Skull Base Surgery for Glomus Tumors ..... Suppl. 60

Gluckman, J.L., Mann, W., Gapany, M., Welkoborsky, H-J.: Role of Real-Time Ultrasonography in an Otolaryngology Office Setting ..... 570

Gold Weight or Spring Implants and MRI—May, M., Mester, S.J., *et al.* ..... 930

Goodwin, W.J. Jr., Arnold, D., Wachholz, J.: Surgical Anatomy of the Glossopharyngeal Nerve ..... 1302

Grasl, M.Ch.: Free Jejunal Autografts for Immediate Voice Restoration Following Laryngectomy ..... 96

Grevers, G.: Role of Fenestrated Vessels for the Secretory Process in the Nasal Mucosa: A Histologic and Transmission Electron Microscopic Study in the Rabbit ..... 1255

Gulya, A.J.: Neurologic Paraneoplastic Syndromes With Neurotologic Manifestations ..... 754

## H

Hagen, P., Lyons, G.D., Haindel, C.: Verrucous Carcinoma of the Larynx: Role of Human Papillomavirus, Radiation, and Surgery ..... 253

Haller, J., Burgess, R., Dawson, D.: Increased Cytotoxicity of Squamous Cell Carcinoma of the Head and Neck by Combining Cisplatin With VP-16 and Ciprofloxacin ..... 1081

Halvorson, D.J., Coker, N.J., Wang-Bennett, L.T.: Histologic Correlation of the Degenerating Facial Nerve With Electroneurography ..... 178

Harada, T., Takahara, T., Ishii, S.: Three-Dimensional Reconstruction of the Temporal Bone From a Case of E Trisomy Syndrome ..... 541

Hashimoto's Thyroiditis and Carcinoma of the Thyroid: Optimal Management—Sclafani, A.P., Valdes, M., *et al.* ..... 845

Haughey, B.: Tongue Reconstruction: Concepts and Practice 1132

Hayden, R.E., Snyder, B.J.: Pharmacologic Manipulation of Random Skin Flaps With Pentoxifylline ..... 185

Hecht, C.S., Gannon, P.J., Eden, A.R.: Motor Innervation of the Eustachian Tube Muscles in the Guinea Pig ..... 1218

Hemipharyngectomy and Hemilaryngectomy for Pyriform Sinus Cancer: Reconstruction With Remaining Larynx and Hypopharynx and With Tracheostomy—Barzan, L., Comoretto, R. ..... 82

Hemodynamics of the Rodent Abdominal Skin Flap Following Primary Ischemia—Ho, B.T., Weinberg, H., *et al.* ..... 981

High-Risk Areas in Endoscopic Sinus Surgery and Prevention of Complications—Ohnishi, T., Tachibana, T., *et al.* .. 1181

Histologic Correlation of the Degenerating Facial Nerve With Electroneurography—Halvorson, D.J., Coker, N.J., *et al.* .. 178

Histological Study of the Healing of Traumatic Tympanic Membrane Perforation After Basic Fibroblast Growth Factor Application—Mondain, M., Ryan, A. ..... 312

HIV-Positive Physician—1992—Lucente, F.E. ..... 333

Ho, B.T., Weinberg, H., Zhang, W.X., Aviv, J.E., Biller, H.F., Urken, M.L.: Hemodynamics of Rodent Abdominal Skin Flap Following Primary Ischemia ..... 981

Hoffman, R.A., Cohen, N.L.: Surgical Pitfalls in Cochlear Implantation ..... 741

Holt, J.J., Broste, S.K., Hansen, D.A.: Noise Exposure in the Rural Setting ..... 258

Hom, D.B., Assefa, G., Song, C.W.: Endothelial Cell Growth Factor (ECGF) Application to Irradiated Soft Tissue ..... 165

Horowitz, J.B., Sasaki, C.T.: Effect of Cricopharyngeus Myotomy on Postlaryngectomy Pharyngeal Contraction Pressures ..... 138

Hueb, M.M., Goycoolea, M.V., Muchow, D., Duvall, A.J., Paparella, M.M., Sheridan, C.: In Search of Missing Links in Otology. III. Development of a New Animal Model for Cholesteatoma ..... 774

Hüttenbrink, K-B.: Manipulating the Mobile Stapes During Tympanoplasty: The Risk of Stapedial Luxation ..... 668

Hydroxylapatite Prosthesis for Defects of the Incus Long Process—Applebaum, E.L. ..... 330

Hyperparathyroidism Induced by Hypothyroidism—Walker, R.P., Oslapas, R., *et al.* ..... 263

## I

Idiopathic Facial Nerve Paralysis: A Randomized Double Blind Controlled Study of Placebo Versus Prednisone—Austin, J.R., Peskind, S.P., *et al.* ..... 1326

Image-Guided Intervention for Diagnosis and Treatment of Disorders of the Head and Neck—Fried, M.P., Jolesz, F.A. 924

Immunoperoxidase Study of the Endolymphatic Sac in Meniere's Disease—Dornhoffer, J.L., Waner, M., *et al.* ..... 1027

Implications of Positive Surgical Margins—Jacobs, J.R., Ahmad, K., *et al.* ..... 64

Importance of Preoperative Nasal Endoscopy in Patients With Sinonasal Disease—Vining, E.M., Yanagisawa, K., *et al.* ..... 512

Improvements in the Assessment of Pulmonary Function in Laryngectomized Patients—Ackerstaff, A.H., Souren, T., *et al.* ..... 1391

In Search of Missing Links in Otology. III. Development of a New Animal Model for Cholesteatoma—Hueb, M.M., Goycoolea, M.V., *et al.* ..... 774

Increased Cytotoxicity of Squamous Cell Carcinoma of the Head and Neck by Combining Cisplatin With VP-16 and Ciprofloxacin—Haller, J., Burgess, R., *et al.* ..... 1081

Indications for the AO Plate With a Myocutaneous Flap Instead of Revascularized Tissue Transfer for Mandibular Reconstruction—Disher, M.J., Esclamado, R.M., *et al.* .... 1264

Infratympanic Extended Facial Recess Approach for Anteriorly Extensive Middle Ear Disease: A Conservation Technique—Jackson, C.G. ..... 451

Inhalation of Platelet-Activating Factor Increases Respiratory Resistance in Rats: Determination by Means of an Astograph Under Nonanesthetized Conditions—Kosugi, T., Saitoh, S., *et al.* ..... 428

Inner Ear-Specific Autoantibodies—Yamanobe, S., Harris, J.P. ..... 319

Insertional Trauma of Multichannel Cochlear Implants—Welling, D.B., Hinojosa, R., *et al.* ..... 995

Intraoperative Versus Interstitial Radiotherapy: A Comparison of Morbidity in the Head and Neck—Close, L.G., Morrish, T.N., *et al.* ..... 231

Intrasubject Test-Retest Variability in Clinical Electrocochleography—Roland, P.S., Rosenbloom, J., *et al.* ..... 963

Ionized Serum Calcium Levels Following Combined Treatment for Cancer of the Head and Neck—Talmi, Y.P., Wolf, G.T., *et al.* ..... 1048

Irish, J.C., Bernstein, A.: Oncogenes in Head and Neck Cancer ..... 42

Irritative Spontaneous Nystagmus Following Intratympanic Gentamicin for Meniere's Disease—Parnes, L., Riddell, D. 745

## J

Jackson, C.G.: Infratympanic Extended Facial Recess Approach for Anteriorly Extensive Middle Ear Disease: A Conservation Technique ..... 451

Jacobs, J.R., Ahmad, K., Casiano, R., Schuller, D.E., Scott, C., Laramore, G.E., *et al.*: Implications of Positive Surgical Margins ..... 64

Janecka, I.P., Sekhar, L.N., Sen, C.N.: Facial Nerve Management in Cranial Base Surgery ..... 291

Jiang, J.J., Titze, I.R.: Methodological Study of Hemilaryngeal Phonation ..... 872

Juvenile Aggressive Cemento-Ossifying Fibroma: Case Report and Review of the Literature—Bertrand, B., Eloy, Ph., *et al.* ..... 1385

## K

Kasperbauer, J.L., O'Halloran, G.L., Espy, M.J., Smith, T.F., Lewis, J.E.: Polymerase Chain Reaction (PCR) Identification of Human Papillomavirus (HPV) DNA in Verrucous Carcinoma of the Larynx ..... 416

Kass, E.G., McFadden, E.A., Jacobsen, S., Toohill, R.J.: Acute Epiglottitis in the Adult: Experience With a Seasonal Presentation ..... 841

Katsantonis, G.P., Moss, K., Miyazaki, S., Walsh, J.: Determining the Site of Airway Collapse in Obstructive Sleep Apnea With Airway Pressure Monitoring ..... 1126

Keim, R.J.: Clinical Comparisons of Posturography and Electronystagmography ..... 713

Kennedy, T.L.: Revision Surgery for Sedlacek-Kambic-Tucker Epiglottic Laryngoplasty ..... 820

Koch, R.J., Brodsky, L.: Effect of Specific Bacteria on Lymphocyte Proliferation in Diseased and Nondiseased Tonsils .. 1020

Koizumi, T., Taniguchi, S., Itakura, F.: Analysis-by-Synthesis Approach to the Estimation of Vocal Cord Polyp Features 1035

Kosugi, T., Saitoh, S., Tamaki, N., Hanashiro, K., Nakahodo, K., Nakamura, M.: Inhalation of Platelet-Activating Factor Increases Respiratory Resistance in Rats: Determination by Means of an Astograph Under Nonanesthetized Conditions ..... 428

Kumar, A., Pieri, A., Krol, G.: Rebound Caloric Nystagmus ... 1205

## L

Laccourreye, O., Mérite-Drancy, A., Brasnu, D., Chabardes, E., Cauchois, R., Ménard, M., *et al.*: Supracricoid Hemilaryngopharyngectomy in Selected Pyriform Sinus Carcinoma Staged as T2 ..... 1373

Lafreniere, D., Smurzynski, J., Jung, M., Leonard, G., Kim, D.O.: Otoacoustic Emissions in Full-Term Newborns at Risk for Hearing Loss ..... 1334

Lampe, H.B.: DNA Analysis of Head and Neck Squamous Cell Carcinoma by Flow Cytometry ..... 637

Langford, F.P.J., Fisher, S.R., Molter, D.W., Seigler, H.: Lentigo Maligna Melanoma of the Head and Neck ..... 520

Langman, A.W., Lindeman, R.C.: Revision Stapedectomy .. 954

Langman, A.W., Lindeman, R.C.: Surgery for Vertigo in the Nonserviceable Hearing Ear: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section ..... 1321

Lanza, D.C., Moran, D.T., Doty, R.L., Trojanowski, J.Q., Lee, J.H., Rowley, J.C. III, *et al.*: Endoscopic Human Olfactory Biopsy Technique: A Preliminary Report ..... 815

Laryngeal Reconstruction Following Vertical Partial Laryngectomy—Burgess, LTC L.P.A. ..... 109

Laryngeal Resistance to Respiratory Airflow in Humans—Savard, P., Cole, P., *et al.* ..... 785

Lateral Approach to Tumors of the Craniovertebral Junction—Canalis, R.F., Martin, N., *et al.* ..... 343

Lateral Crural Turnover Graft: Correction of the Concave Lateral Crus—McCollough, E.G., Fedok, F.G. ..... 463

Lazar, R.H., Younis, R.T., Long, T.E.: Functional Endonasal Sinus Surgery in Adults and Children ..... 1

Leach, J., Manning, S., Schaefer, S.: Comparison of Two Methods of Tonsillectomy ..... 619

Lee, H.W., Majima, Y., Sakakura, Y., Shinogi, J., Kawaguchi, S., Kim, B.W.: Quantitative Cytology of Nasal Secretions Under Various Conditions ..... 533

Lekas, M.D., Crowley, J.P.: Easy Bruisability, Aspirin Intolerance, and Response to DDAVP ..... 156

Lentigo Maligna Melanoma of the Head and Neck—Langford, F.P.J., Fisher, S.R., *et al.* ..... 520

Lewis, W.J., Uribe, A.: Contact Diode Laser Microvascular Anastomosis ..... 850

Li, J.C., Brackmann, D.E., Lo, W.W.M., Carberry, J.N., House, J.W.: Reclassification of Aggressive Adenomatous Mastoid Neoplasms as Endolymphatic Sac Tumors ..... 1342

Linstrom, C.J., Meiteles, L.Z.: Facial Nerve Monitoring in Surgery for Congenital Auricular Atresia ..... 406

Localization of Glucocorticoid Receptors and Glucocorticoid Receptor mRNAs in the Rat Cochlea—ten Cate, W-J.F., Curtis, L.M., *et al.* ..... 865

Localization of Interleukin-1 in Human Squamous Cell Carcinomas of the Head and Neck—Ahn, J.M., Huang, C-C., *et al.* ..... 529

Long, S.A., Arriaga, M., Nelson, R.A.: Acoustic Neuroma Volume: MRI-Based Calculations and Clinical Implications 1093

Long-term Results of Mastoid Cavities Grafted With Cultured Epithelium Prepared From Autologous Epidermal Cells to Prevent Chronic Otorrhea—Premachandra, D.J., Woodward, B., *et al.* ..... 1121

Long-term Surgical Results for Congenital Aural Atresia—Shih, L., Crabtree, J.A. ..... 1097

Loury, M.C.: Endoscopic Frontal Recess and Frontal Sinus Ostium Dissection ..... 455

Lucente, F.E.: HIV-Positive Physician—1992 ..... 333

Lydiatt, D.D., Savage, H.E., Clayman, G.L., Liu, F.J., Sample, D., Schantz, S.P.: Serologic Determinants of Survival in Patients With Head and Neck Cancer: Validating a Clinical Prediction Model ..... 13

Lymphoma of the Parotid Gland—Mehle, M.E., Kraus, D.H., *et al.* ..... 17

## M

McCollough, E.G., Fedok, F.G.: Lateral Crural Turnover Graft: Correction of the Concave Lateral Crus ..... 463

McKennan, K.X.: Endoscopic 'Second Look' Mastoidoscopy to Rule Out Residual Epitympanic/Mastoid Cholesteatoma .. 810

McKennan, K.X., Nielsen, S.L., Watson, C., Wiesner, K.: Meniere's Syndrome: An Atypical Presentation of Giant Cell Arteritis (Temporal Arteritis) ..... 1103

Magnetic Resonance Imaging of Perilymphatic Fistula—Morris, M.S., Kil, J., *et al.* ..... 729

Maniglia, A.J., Swim, S.: Parietal Bone Graft and Titanium Plate Fixation in Nasal Reconstruction ..... 1066

Manipulating the Mobile Stapes During Tympanoplasty: The Risk of Stapedial Luxation—Hüttenbrink, K-B. ..... 668

Manning, S.C., Mabry, R.L., Schaefer, S.D., Close, L.G.: Evidence of IgE-Mediated Hypersensitivity in Allergic Fungal Sinusitis ..... 717

Martin, W.H., Schwegler, J.W., Scheibelhoffer, J., Ronis, M.L.: Salicylate-Induced Changes in Cat Auditory Nerve Activity 600

Maves, M.D., Cooper, M.H., Benecke, J.E., Young, P.H., Maas, C.S.: Three-Dimensional Video Imaging in Otolaryngology—Head and Neck Surgery ..... 1174

May, M., Mester, S.J., Shapiro, A., Kanal, E.: Gold Weight or Spring Implants and MRI ..... 930

Mazzara, C.A., Baredes, S.: Technique of Tracheoesophageal Puncture Using Flexible Fiberoptic Esophagoscopy ..... 928

Megerian, C.A., Zaidi, S.I.A., Sprecher, R.C., Setrakian, S., Stepnick, D.W., Oleinick, N.L., *et al.*: Photodynamic Therapy of Human Squamous Cell Carcinoma In Vitro and in Xenografts in Nude Mice ..... 967

Mehle, M.E., Kraus, D.H., Wood, B.G., Benninger, M.S., Eliachar, I., Levine, H.L., *et al.*: Facial Nerve Morbidity Following Parotid Surgery for Benign Disease: The Cleveland Clinic Foundation Experience ..... 386

Mehle, M.E., Kraus, D.H., Wood, B.G., Tubbs, R., Tucker, H.M., Lavertu, P.: Lymphoma of the Parotid Gland ..... 17

Meiteles, L.Z., Kraus, W., Shemen, L.: Modified Epiglottoplasty for Prevention of Aspiration ..... 1395

Meniere's Syndrome: An Atypical Presentation of Giant Cell Arteritis (Temporal Arteritis)—McKennan, K.X., Nielsen, S.L., *et al.* ..... 1103

Metabolic Activity of the Central Auditory Structures Following Prolonged Deafferentation—El-Kashlan, H.K., Noorily, A.D., *et al.* ..... 399

Methodological Study of Hemilaryngeal Phonation—Jiang, J.J., Titze, I.R. ..... 872

Microbial Adherence to and Distribution of Laryngoscopes Used in Office Practice—Abramson, A.L., Gilberto, E., *et al.* 503

Microbial Colonization of Blom-Singer Prostheses in Postlaryngectomy Patients—Palmer, M.D., Johnson, A.P., *et al.* 910

Microsurgical Bipolar Cautery Tonsillectomy—Andrea, M. 1177

Middle Ear Disease in Young Children With Sensorineural Hearing Loss—Brookhouser, P.E., Worthington, D.W., *et al.* 371

Milczuk, H.A., Dalley, R.W., Wessbacher, F.W., Richardson, M.A.: Nasal and Paranasal Sinus Anomalies in Children With Chronic Sinusitis ..... 247

Milewski, C.: Composite Graft Tympanoplasty in the Treatment of Ears With Advanced Middle Ear Pathology ..... 1352

Miljeteig, H., Savard, P., Mateika, S., Cole, P., Haight, J.S.H., Hoffstein, V.: Snoring and Nasal Resistance During Sleep 918

Miller, R.H.: Otolaryngology Manpower in the Year 2010 ... 750

Mirante, J.P., Urken, M.L., Aviv, J.E., Brandwein, M., Buchbinder, D., Biller, H.F.: Resistance to Osteoradionecrosis in Neovascularized Bone ..... 1168

Modified Epiglottoplasty for Prevention of Aspiration—Meiteles, L.Z., Kraus, W., *et al.* ..... 1395

Møller, M.B., Møller, A.R., Jannetta, P.J., Jho, H.D.: Vascular Decompression Surgery for Severe Tinnitus: Selection Criteria and Results ..... 421

Mondain, M., Ryan, A.: Histological Study of the Healing of Traumatic Tympanic Membrane Perforation After Basic Fibroblast Growth Factor Application ..... 312

Monnier, P., Savary, M., Chapuis, G.: Partial Cricoid Resection With Primary Tracheal Anastomosis for Subglottic Stenosis in Infants and Children ..... 1273

Morphometric Analysis of the Vestibular Complex in the Rat—Suárez, C., González del Rey, C., *et al.* ..... 762

Morris, M.S., Kil, J., Carvlin, M.J.: Magnetic Resonance Imaging of Perilymphatic Fistula ..... 729

Moses, B.L., Eisele, D.W., Jones, B.: Radiologic Assessment of the Early Postoperative Total-Laryngectomy Patient .... 1157

Motor Innervation of the Eustachian Tube Muscles in the Guinea Pig—Hecht, C.S., Gannon, P.J., *et al.* ..... 1218

Mounsey, R.A., Brown, D.H., O'Dwyer, T.P., Gullane, P.J., Koch, G.H.: Role of Hyperbaric Oxygen Therapy in the Management of Mandibular Osteoradionecrosis ..... 605

Moy, P.K., Lundren, S., Beumer, J. III, Castro, D.: Stabilization of Craniofacial Prostheses Using Osseointegrated Titanium Implants ..... 1399

Mullins, J.B., Templer, J.W., Kong, J., Davis, W.E., Hinson, J. Jr.: Airway Resistance and Work of Breathing in Tracheostomy Tubes ..... 1367

Multichannel (Ineraid®) Cochlear Implant Update—Parkin, J.L., Randolph, L.J., *et al.* ..... 835

## N

Nakashima, S., Sando, I., Takahashi, H., Fujita, S.: Computer-Aided 3-D Reconstruction and Measurement of the Facial Canal and Facial Nerve. I. Cross-Sectional Area and Diameter: Preliminary Report ..... 1150

Nakashima, T., Yanagita, N.: Outcome of Sudden Deafness With and Without Vertigo ..... 1145

Nasal Airway Size in Cleft and Noncleft Children—Drake, A.F., Davis, J.U., *et al.* ..... 915

Nasal and Paranasal Sinus Anomalies in Children With Chronic Sinusitis—Milczuk, H.A., Dalley, R.W., *et al.* .... 247

Nasal Mucosal Congestion After Treatment With Bromocriptine—Bende, M., Bergman, B., *et al.* ..... 1142

Nayar, R.C., Prudhomme, F., Parise, O. Jr., Gandia, D., Luboinski, B., Schwaab, G.: Rhabdomyosarcoma of the Head and Neck in Adults: A Study of 26 Patients ..... 1362

Neck Needle Foreign Bodies in Intravenous Drug Abusers—Williams, M.F., Eisele, D.W., *et al.* ..... 59

Neo-Oval Window Technique and Myringo-Chorda-Vestibulopexy in the BOR Syndrome—Cremers, C.W.R.J., Marres, H.A.M., *et al.* ..... 1186

Nerve Excitability Testing: Technical Pitfalls and Threshold Norms Using Absolute Values—Gates, G.A. ..... 379

Neurologic Paraneoplastic Syndromes With Neurotologic Manifestations—Gulya, A.J. ..... 754

Neurotologic Skull Base Surgery for Glomus Tumors—Glasscock, M.E. III, Jackson, C.G. ..... Suppl. 60

Neurovascular Considerations in Surgery of Glomus Tumors With Intracranial Extensions—Anand, V.K., Leonetti, J.P., *et al.* ..... 722

Nishioka, K., Saito, C., Nagano, T., Okano, M., Masuda, Y., Kuriyama, T.: Eosinophil Cationic Protein in the Nasal Secretions of Patients With Mite Allergic Rhinitis ..... 189

Nodal Size of Metastatic Squamous Cell Carcinoma of the Neck—Friedman, M., Roberts, N., *et al.* ..... 854

Noise Exposure in the Rural Setting—Holt, J.J., Broste, S.K., *et al.* ..... 258

Nonpalpable Occult and Metastatic Papillary Thyroid Carcinoma—Witterick, I.J., Abel, S.M., *et al.* ..... 149

Nonwound Infections Following Head and Neck Oncologic Surgery—Weber, R.S., Hankins, P., *et al.* ..... 22

## O

Ohnishi, T., Tachibana, T., Kaneko, Y., Esaki, S.: High-Risk Areas in Endoscopic Sinus Surgery and Prevention of Complications ..... 1181

O'Malley, B.W. Jr., Ledley, F.D.: DNA- and Viral-Mediated Gene Transfer in Follicular Cells: Progress Toward Gene Therapy of the Thyroid ..... 1084

Once-A-Day Therapy for Sinusitis: A Comparison Study of

Cefixime and Amoxicillin—Edelstein, D.R., Avner, S.E., *et al.* ..... 33

Oncogenes in Head and Neck Cancer—Irish, J.C., Bernstein, A. ..... 42

Orthotopic Laryngeal Transplantation: Is It Time?—Berke, G.S., Ye, M., *et al.* ..... 857

Ossification Patterns of the Tympanic Facial Canal in the Human Fetus and Neonate—Spector, J.G., Ge, X. ..... 1052

Otoacoustic Emissions in Full-Term Newborns at Risk for Hearing Loss—Lafreniere, D., Smurzynski, J., *et al.* ..... 1334

Otolaryngology Manpower in the Year 2010—Miller, R.H. .. 750

Otosclerosis Regrowth—Robinson, M. ..... 1383

Outcome of Sudden Deafness With and Without Vertigo—Nakashima, T., Yanagita, N. ..... 1145

Owens, M., Klotch, D.W.: Use of Bone for Obliteration of the Nasofrontal Duct With the Osteoplastic Flap: A Cat Model 883

## P

Palmer, M.D., Johnson, A.P., Elliott, T.S.J.: Microbial Colonization of Blom-Singer Prostheses in Postlaryngectomy Patients ..... 910

Parietal Bone Graft and Titanium Plate Fixation in Nasal Reconstruction—Maniglia, A.J., Swim, S. ..... 1066

Park, M.S., Cha, C.I.: Biochemical Aspects of Fibrin Glue Derived From Ammonium Sulfate Precipitation ..... 193

Parkin, J.L., Randolph, L.J., Parkin, B.D.: Multichannel (Ineraid®) Cochlear Implant Update ..... 835

Parnes, L.S., Riddell, D.: Irritative Spontaneous Nystagmus Following Intratympanic Gentamicin for Meniere's Disease 745

Parsons, Col D.S., Greene, Capt B.A.: Treatment for Primary Ciliary Dyskinesia: Efficacy of Functional Endoscopic Sinus Surgery ..... 1269

Parsons, Col D.S., Phillips, Capt S.E.: Functional Endoscopic Surgery in Children: A Retrospective Analysis of Results 899

Partial Cricoid Resection With Primary Tracheal Anastomosis for Subglottic Stenosis in Infants and Children—Monnier, P., Savary, M., *et al.* ..... 1273

Passy, V., Baydur, A., Prentice, W., Darnell-Neal, R.: Passy-Muir® Tracheostomy Speaking Valve on Ventilator-Dependent Patients ..... 653

Passy-Muir® Tracheostomy Speaking Valve on Ventilator-Dependent Patients—Passy, V., Baydur, A., *et al.* ..... 653

Patient Use of 'Telemetric' ENG to Register Nystagmus in the Private Sphere—Wolf, S.R., Christ, P., *et al.* ..... 704

Patt, B.S., Close, L.G., Vuitch, F.: Prognostic Significance of Sinus Histiocytosis in Metastatic Laryngeal Cancer ..... 498

Penetrating Trauma of the Oropharynx in Children—Radkowski, D., McGill, T.J., *et al.* ..... 991

Peripheral Hearing loss Following Head Trauma in Children—Zimmerman, W.D., Ganzel, T.M., *et al.* ..... 87

Peritubal Adenoidectomy—Drake, A.F., Fischer, N.D. ..... 1291

Peskind, S.P., Stanley, R.B., Thangathurai, D.: Treatment of the Compromised Trachea With Sleeve Resection and Primary Repair ..... 203

Petroianu, A., Barbosa, A.J.A.: Experimental Reconstruction of Anterior and Circumferential Defects of the Cervical Trachea ..... 1259

Pharmacologic Manipulation of Random Skin Flaps With Pentoxifylline—Hayden, R.E., Snyder, B.J. ..... 185

Photodynamic Therapy for Treatment of Esophageal Cancer: A Preliminary Report—Schweitzer, V.G., Bologna, S., *et al.* 699

Photodynamic Therapy of Human Squamous Cell Carcinoma In Vitro and in Xenografts in Nude Mice—Megerian, C.A., Zaidi, S.I.A., *et al.* ..... 967

Pitfalls in Evaluation of Photosensitizing Agents: An Example With Q-Switch II Dye—Eton, D., Ahn, S., *et al.* ..... 1284

Poe, D.S., Gadre, A.K.: Cartilage Tympanoplasty for Management of Retraction Pockets and Cholesteatomas ..... 614

Polymerase Chain Reaction Amplification of DNA From Celloidin-Embedded Human Temporal Bone Sections—Wackym, P.A., Simpson, T.A., *et al.* ..... 583

Polymerase Chain Reaction (PCR) Identification of Human Papillomavirus (HPV) DNA in Verrucous Carcinoma of the Larynx—Kasperbauer, J.L., O'Halloran, G.L., *et al.* ..... 416

Premachandra, D.J., Woodward, B., Milton, C.M., Sergeant, R.J., Fabre, J.W.: Long-term Results of Mastoid Cavities Grafted With Cultured Epithelium Prepared From Autologous Epidermal Cells to Prevent Chronic Otorrhea ..... 1121

Primary Culture of Reissner's Membrane From the Gerbil: Growth, Morphologic Features, and Characterization—Yeh, T.H., Herman, P., *et al.* ..... 645

Primary Reconstruction of the Hypopharynx Following Pharyngolaryngectomy—Sambataro, G., Ottaviani, F. ..... 338

Proctor, L., Frazer, K., Thakor, R.: Controlling the Caloric Labyrinthine Stimulus: Restoring Surface Temperature ... 679

Prognostic Significance of Sinus Histiocytosis in Metastatic Laryngeal Cancer—Patt, B.S., Close, L.G., *et al.* ..... 498

Prognostic Value of Histopathological Parameters in 51 Supraglottic Squamous Cell Carcinomas—Barona de Guzmán, R., Martorell, M.A., *et al.* ..... 538

## Q

Qadir, R., Kennedy, D.: Use of the Holmium-Yttrium Aluminum Garnet (Ho:YAG) Laser for Cranial Nerve Decompression: An In Vivo Study Using the Rabbit Model ..... 631

Quantitative Cytology of Nasal Secretions Under Various Conditions—Lee, H.S., Majima, Y., *et al.* ..... 533

Quatela, V.C., Futran, N.D., Frisina, R.D.: Effects of Cyanoacrylate Tissue Adhesives on Cartilage Graft Viability 798

## R

Rabbit Facial Nerve Regeneration in NGF-Containing Silastic Tubes—Spector, J.G., Lee, P., *et al.* ..... 548

Radiologic Assessment of the Early Postoperative Total-Laryngectomy Patient—Moses, B.L., Eisele, D.W., *et al.* ..... 1157

Radkowski, D., McGill, T.J., Healy, G.B., Jones, D.T.: Penetrating Trauma of the Oropharynx in Children ..... 991

Rarey, K.E., Davis, L.E.: Temporal Bone Histopathology 14 Years After Cytomegalic Inclusion Disease: A Case Study 904

Real-Time Intraoperative Ultrasonography as a Monitoring Technique for Nd:YAG-Laser Palliation of Unresectable Head and Neck Tumors: Initial Experience—Blackwell, K.E., Castro, D.J., *et al.* ..... 559

Rebound Caloric Nystagmus—Kumar, A., Pieri, A., *et al.* ... 1205

Reclassification of Aggressive Adenomatous Mastoid Neoplasms as Endolymphatic Sac Tumors—Li, J.C., Brackmann, D.E., *et al.* ..... 1342

Reder, P.A., Neel, H.B. III: Blastomycosis in Otolaryngology: Review of a Large Series ..... 53

Resistance to Osteoradionecrosis in Neovascularized Bone—Mirante, J.P., Urken, M.L., *et al.* ..... 1168

Resistance to Respiratory Airflow of the Extrapulmonary Airways—Cole, P., Savard, P., *et al.* ..... 447

Revision Stapedectomy—Langman, A.W., Lindeman, R.C. . 954

Revision Surgery for Sedlacek-Kambic-Tucker Epiglottic Laryngoplasty—Kennedy, T.L. ..... 820

Rhabdomyosarcoma of the Head and Neck in Adults: A Study of 26 Patients—Nayar, R.C., Prudhomme, F., *et al.* ..... 1362

Rimell, F., Goding, G.S., Jr., Johnson, K.: Cholinergic Agents in the Laryngeal Chemoreflex Model of Sudden Infant Death Syndrome ..... 623

Roberto, M., Zito, F.: Use of Cartilage Pâte in Rebuilding Mastoidectomy Cavities: An Alternative Method ..... 1380

Robinson, M.: Otosclerosis Regrowth ..... 1383

Rodgers, G.K., Luxford, W.M.: Factors Affecting the Development of Cerebrospinal Fluid Leak and Meningitis After Translabyrinthine Acoustic Tumor Surgery ..... 959

Roland, J.T., Jr., Rothstein, S.G., Mittal, K.R., Persky, M.S.: Squamous Cell Carcinoma in HIV-Positive Patients Under Age 45 ..... 509

Roland, P.S., Rosenbloom, J., Yellin, W., Meyerhoff, W.L.: Intrasubject Test-Retest Variability in Clinical Electrocochleography ..... 963

Role of Fenestrated Vessels for the Secretory Process in the Nasal Mucosa: A Histologic and Transmission Electron Microscopic Study in the Rabbit—Grevers, G. ..... 1255

Role of $H_2$ Antagonists in Perennial Allergic Rhinitis—Testa, B., Mesolella, C., *et al.* ..... 1013

Role of Hyperbaric Oxygen Therapy in the Management of Mandibular Osteoradionecrosis—Mounsey, R.A., Brown, D.H., *et al.* ..... 605

Role of Radiation Therapy in the Management of Carcinoma In Situ of the Larynx—Small, W., Jr., Mittal, B.B., *et al.* ..... 663

Role of Real-Time Ultrasonography in an Otolaryngology Office Setting—Gluckman, J.L., Mann, W., *et al.* ..... 570

Role of Subtotal Thyroidectomy in the Management of the Follicular Neoplasm of the Thyroid—de Souza, F.M. ..... 477

Rontal, E., Rontal, M., Silverman, B., Kileny, P.R.: Clinical Differentiation Between Vocal Cord Paralysis and Vocal Cord Fixation Using Electromyography ..... 133

Rosenfeld, R.M., Bluestone, C.D.: Does Early Expansion Surgery Have a Role in the Management of Congenital Subglottic Stenosis? ..... 286

## S

Safe, Effective Anesthetic Technique for Outpatient Myringotomy Tube Placement—Carrasco, V.N., Prazma, T., *et al.* 92

Salicylate-Induced Changes in Cat Auditory Nerve Activity—Martin, W.H., Schwegler, J.W., *et al.* ..... 600

Sambataro, G., Ottaviani, F.: Primary Reconstruction of the Hypopharynx Following Pharyngolaryngectomy ..... 338

Sanders, I., Jacobs, I., Wu, B-L., Biller, H.F.: Three Bellies of the Canine Posterior Cricoarytenoid Muscle: Implication for Understanding Laryngeal Function ..... 171

Sato, H., Takahashi, H., Sando, I.: Bony Dehiscence Between Singular Canal and Round Window Niche ..... 78

Savard, P., Cole, P., Miljeteig, H., Haight, J.S.J.: Laryngeal Resistance to Respiratory Airflow in Humans ..... 785

Schaitkin, B., May, M., Shapiro, A., Fucci, M., Mester, S.J.: Endoscopic Sinus Surgery: 4-Year Follow-up on the First 100 Patients ..... 1117

Schwaber, M.K., Vrabec, J.T.: Suboccipital Vestibular Neurectomy: Results and Complications ..... 936

Schweitzer, V.G., Bologna, S., Batra, S.K.: Photodynamic Therapy for Treatment of Esophageal Cancer: A Preliminary Report ..... 699

Sclafani, A.P., Valdes, M., Cho, H.: Hashimoto's Thyroiditis and Carcinoma of the Thyroid: Optimal Management ... 845

Selesnick, S.H., Jackler, R.K.: Atypical Hearing Loss in Acoustic Neuroma Patients ..... 437

Selesnick, S.H., Jackler, R.K., Pitts, L.W.: Changing Clinical Presentation of Acoustic Tumors in the MRI Era ..... 431

Sennaroğlu, L., Önerci, M., Hascelik, G.: Effect of Tonsillectomy and Adenoidectomy on Neutrophil Chemotaxis ..... 1349

Sensorineural Hearing Loss Associated With Aortocoronary Bypass Surgery: A Prospective Analysis—Stankiewicz, J.A., Kaniff, T., *et al.* ..... 589

Serologic Determinants of Survival in Patients With Head and Neck Cancer: Validating a Clinical Prediction Model—Lydiatt, D.D., Savage, H.E., *et al.* ..... 13

Serum and Acute Phase Protein Modulation of the Effector Phase of Lymphokine-Activated Killer Cells—Clayman, G.L., Taylor, D.L., *et al.* ..... 299

Shih, L., Crabtree, J.A.: Long-term Results for Congenital Aural Atresia ..... 1097

Significance of Tumor Thickness in Soft Palate Carcinoma—Baredes, S., Leeman, D.J., *et al.* ..... 389

Silverstein, H., Wannamaker, H.H., Flanzer, J.M.: Composite TORPS and PORPS for Ossicular Reconstruction ..... 94

Skedros, D.G., Haddad, J., Jr., Bluestone, C.D., Curtin, H.D.: Subperiosteal Orbital Abscess in Children: Diagnosis, Microbiology, and Management ..... 28

Sloan, S.H., Berke, G.S., Gerratt, B.R., Kreiman, J., Ye, M.: Determination of Vocal Fold Mucosal Wave Velocity in an In Vivo Canine Model ..... 947

Small, W., Jr., Mittal, B.B., Brand, W.N., Shetty, R.M., Rademaker, A.W., Beck, G.G., *et al.*: Role of Radiation Therapy in the Management of Carcinoma In Situ of the Larynx .... 663

Snoring and Nasal Resistance During Sleep—Miljeteig, H., Savard, P., *et al.* ..... 918

Spector, J.G., Ge, X.: Ossification Patterns of the Tympanic Facial Canal in the Human Fetus and Neonate ..... 1052

Spector, J.G., Lee, P., Derby, A., Frierdich, G.E., Neises, G., Roufa, D.G.: Rabbit Facial Nerve Regeneration in NGF-Containing Silastic Tubes ..... 548

Sperling, N.M., Paparella, M.M., Yoon, T.H., Zelterman, D.: Symptomatic Versus Asymptomatic Endolymphatic Hydrops: A Histopathologic Comparison ..... 277

Squamous Cell Carcinoma in HIV-Positive Patients Under Age 45—Roland, J.T., Jr., Rothstein, S.G., *et al.* ..... 509

Stabilization of Craniofacial Prostheses Using Osseointegrated Titanium Implants—Moy, P.K., Lundgren, S., *et al.* 1399

Stankiewicz, J.A., Kaniff, T., Pifarre, R., Allegretti, J.: Sensorineural Hearing Loss Associated With Aortocoronary Bypass Surgery: A Prospective Analysis ..... 589

Stearns, G.S., Keithley, E.M., Harris, J.P.: Development of High Endothelial Venule-Like Characteristics in the Spinal Modiolar Vein Induced by Viral Labyrinthitis ..... 890

Storper, I.S., Honrubia, V., Beykirch, K.A., Hoffman, L.F.: Galvanically-Induced Vestibulo-Ocular Reflex in the Cat ..... 1108

Stringer, S.P., Mancuso, A.A., Avino, A.J.: Effect of a Topical Vasoconstrictor on Computed Tomography of Paranasal Sinus Disease ..... 6

Strome, M., Darrell, J., Wu, J., Brodsky, G.: Effect of Cyclo-

sporin A on Transplanted Rat Allografts ..... 394

Su, C-Y., Hsu, S-P., Chee, E.C-Y.: Electromyographic Recording of Tensor and Levator Veli Palatini Muscles: A Modified Transnasal Insertion Method ..... 459

Su, C-Y., Hsu, S-P., Lui, C-C.: Computed Tomography, Magnetic Resonance Imaging, and Electromyographic Studies of Tensor Veli Palatini Muscles in Patients With Nasopharyngeal Carcinoma ..... 673

Suárez, C., González del Rey, C., Tolivia, J., Llorente, J., Díaz, C., Navarro, A., *et al.*: Morphometric Analysis of the Vestibular Complex in the Rat ..... 762

Subcutaneous Pedicled Extension Flap: A New Development in Random Flaps—Burnam, J.A. ..... 1293

Suboccipital Vestibular Neurectomy: Results and Complications—Schwaber, M.K., Vrabec, J.T. ..... 936

Subperiosteal Orbital Abscess in Children: Diagnosis, Microbiology, and Management—Skedros, D.G., Haddad, J., Jr., *et al.* ..... 28

Sudden Hearing Loss Induced by Acoustic Neuroma: Significance of Small Cell Tumors—Yanagihara, N., Asai, M. ... 308

Supracricoid Hemilaryngopharyngectomy in Selected Pyriform Sinus Carcinoma Staged as T2—Laccourreye, O., Mérite-Drancy, A., *et al.* ..... 1373

Surgery for Vertigo in the Nonserviceable Hearing Ear: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section—Langman, A.W., Lindeman, R.C. ..... 1321

Surgical Anatomy of the Glossopharyngeal Nerve—Goodwin, W.J. Jr., Arnold, D., *et al.* ..... 1302

Surgical Pitfalls in Cochlear Implantation—Hoffman, R.A., Cohen, N.L. ..... 741

Symptomatic Versus Asymptomatic Endolymphatic Hydrops: A Histopathologic Comparison—Sperling, N.M., Paparella, M.M., *et al.* ..... 277

## T

Talmi, Y.P., Wolf, G.T., Esclamado, R., Carroll, W.R., Sassler, A.M.: Ionized Serum Calcium Levels Following Combined Treatment for Cancer of the Head and Neck ..... 1048

Technique for Displaying the Entire Nerve Branching Pattern of a Whole Muscle: Results in 10 Canine Posterior Cricoarytenoid Muscles—Drake, W. III, Li, Y., *et al.* ..... 141

Technique of Tracheoesophageal Puncture Using Flexible Fiberoptic Esophagoscopy—Mazzara, C.A., Baredes, S. .. 928

Teichgraeber, J.F.: Temporoparietal Fascial Flap in Orbital Reconstruction ..... 931

Temporal Bone Histopathology 14 Years After Cytomegalic Inclusion Disease: A Case Study—Rarey, K.E., Davis, L.E. 904

Temporoparietal Fascial Flap in Orbital Reconstruction—Teichgraeber, J.F. ..... 931

ten Cate, W-J.F., Curtis, L.M., Small, G.M., Rarey, K.E.: Localization of Glucocorticoid Receptors and Glucocorticoid Receptor mRNAs in the Rat Cochlea ..... 865

Terris, D.J., Goode, R.L.: Costochondral Pharyngeal Implants for Velopharyngeal Insufficiency ..... 565

Testa, B., Mesolella, C., Filippini, P., Campagnano, N., Testa, D., Mesolella, M., *et al.*: Role of $H_2$ Antagonists in Perennial Allergic Rhinitis ..... 1013

Thedinger, B.A., Cueva, R.A., Glasscock, M.E. III: Treatment of an Acoustic Neuroma in an Only-Hearing Ear: Case Reports and Considerations for the Future ..... 976

Thomassin, J.M., Korchia, D., Doris, J.M.D.: Endoscopic-Guided Otosurgery in the Prevention of Residual Cholesteatomas 939

Thompson, T., Frable, M.A.S.: Drug-Induced, Life-Threatening Angioedema Revisited ..... 10

Three Bellies of the Canine Posterior Cricoarytenoid Muscle: Implications for Understanding Laryngeal Function—Sanders, I., Jacobs, I., *et al.* ..... 171

Three-Dimensional Reconstruction of the Temporal Bone From a Case of E Trisomy Syndrome—Harada, T., Takahara, T., *et al.* ..... 541

Three-Dimensional Video Imaging in Otolaryngology—Head and Neck Surgery—Maves, M.D., Cooper, M.H., *et al.* .... 1174

Tongue Reconstruction: Concepts and Practice—Haughey, B. 1132

Transpalatal Advancement Pharyngoplasty for Obstructive Sleep Apnea—Woodson, B.T., Toohill, R.J. ..... 269

Treatment for Primary Ciliary Dyskinesia: Efficacy of Functional Endoscopic Sinus Surgery—Parsons, Col D.S., Greene, Capt B.A. ..... 1269

Treatment of an Acoustic Neuroma in an Only-Hearing Ear: Case Reports and Considerations for the Future—Thedinger, B.A., Cueva, R.A., *et al.* ..... 976

Treatment of the Compromised Trachea With Sleeve Resection and Primary Repair—Peskind, S.P., Stanley, R.B., *et al.* ..... 203

Tucker, H.M.: Double-Barreled (Diversionary) Tracheostomy: Long-Term Results and Reversibility ..... 212

Tucker, H.M., Wanamaker, J., Trott, M., Hicks, D.: Complications of Laryngeal Framework Surgery (Phonosurgery) .. 525

Tympanostomy Tubes: Experience With Removal—Cunningham, M.J., Eavey, R.D., *et al.* ..... 659

## U

Use of Bone for Obliteration of the Nasofrontal Duct With the Osteoplastic Flap: A Cat Model—Owens, M. Klotch, D.W. 883

Use of Cartilage Pâte in Rebuilding Mastoidectomy Cavities: An Alternative Method—Roberto, M., Zito, F. ..... 1380

Use of the Holmium:Yttrium Aluminum Garnet (Ho:YAG) Laser for Cranial Nerve Decompression: An In Vivo Study Using the Rabbit Model—Qadir, R., Kennedy, D. ..... 631

Use of the Platysma Myocutaneous Flap for Cervical Trachea Reconstruction: An Experimental Study in Dogs—de Mello-Filho, F.V., Mamede, R.C.M., *et al.* ..... 1161

## V

Vascular Decompression Surgery for Severe Tinnitus: Selection Criteria and Results—Møller, M.B., Møller, A.R., *et al.* 421

Verrucous Carcinoma of the Larynx: Role of Human Papillomavirus, Radiation, and Surgery—Hagen, P., Lyons, G.D., *et al.* ..... 253

Vestibular Decruitment: An Indicator of Central Pathology?—de la Fuente-Arjona, L., Marco-Algarra, J. ..... 793

Vining, E.M., Yanagisawa, K., Yanagisawa, E.: Importance of Preoperative Nasal Endoscopy in Patients With Sinonasal Disease ..... 512

## W

Wackym, P.A., Simpson, T.A., Gantz, B.J., Smith, R.J.H.: Polymerase Chain Reaction Amplification of DNA From Celloidin-Embedded Human Temporal Bone Sections .... 583

Walker, R.P., Oslapas, R., Ernst, K., Hessel, P., Nayyar, R., Lawrence, A.M., *et al.*: Hyperparathyroidism Induced by Hypothyroidism ..... 263

Wanamaker, H.H., Silverstein, H.: Compatibility of the Argon

and KTP Lasers With Middle Ear Implants ..... 609

Weber, P.C., Perez, B.A., Bluestone, C.D.: Congenital Perilymphatic Fistula and Associated Middle Ear Abnormalities 160

Weber, R.S., Hankins, P., Rosenbaum, B., Raad, I.: Nonwound Infections Following Head and Neck Oncologic Surgery .. 22

Welling, D.B., Hinojosa, R., Gantz, B.J., Lee, J-T.: Insertional Trauma of Multichannel Cochlear Implants ..... 995

Wenig, B.L.: Comparison of Suture Versus Laser-Assisted Microvascular Anastomosis (LAMA) in the Pig Buttock Flap Model ..... 1002

Wenig, B.L., Weingarten, R.: Excision of Rhinophyma with Nd:YAG Laser: A New Technique ..... 101

Wetmore, R.F.: Effects of Acid on the Larynx of the Maturing Rabbit and Their Significance to the Sudden Infant Death Syndrome ..... 1242

Wiet, R.J., Harvey, S.A., Pyle, M.A.: Canal Wall Reconstruction: A Newer Implantation Technique ..... 594

Williams, M.F., Eisele, D.W., Wyatt, S.H.: Neck Needle Foreign Bodies in Intravenous Drug Abusers ..... 59

Witterick, I.J., Abel, S.M., Noyek, A.M., Freeman, J.L., Chapnik, J.S.: Nonpalpable Occult and Metastatic Papillary Thyroid Carcinoma ..... 149

Wolf, S.R., Christ, P., Haid, C-T.: Patient Use of 'Telemetric' ENG to Register Nystagmus in the Private Sphere ..... 704

Woodson, B.T., Toohill, R.J.: Transpalatal Advancement Pharyngoplasty for Obstructive Sleep Apnea ..... 269

Woodson, G.E.: Configuration of the Glottis in Laryngeal Paralysis. I: Clinical Study ..... 1227

Woodson, G.E.: Configuration of the Glottis in Laryngeal Paralysis. II: Animal Experiments ..... 1235

## Y

Yamanobe, S., Harris, J.P.: Inner Ear-Specific Autoantibodies 319

Yamashiro, Y., Nakamura, M., Huang, G-W., Kosugi, T.: Fibrin Binding, Fibrinolytic and Fibrinogenolytic Activity of Plasminogen Activator Derived From the Paranasal Mucous Membrane of Humans ..... 197

Yanagihara, N., Asai, M.: Sudden Hearing Loss Induced by Acoustic Neuroma: Significance of Small Tumors ..... 308

Yasumura, S., Takahashi, H., Sando, I., Aoki, H., Hirsch, B.E.: Facial Nerve Near the External Auditory Meatus in Man: Computer Reconstruction Study—Preliminary Report ... 1043

Yeh, T.H., Herman, P., Martin, F., Soler, P., Tran Ba Huy, P.: Primary Culture of Reissner's Membrane From the Gerbil: Growth, Morphologic Features, and Characterization .... 645

## Z

Zamora, R.L., Harvey, J.E., Sessions, D.G., Spitznagel, E.L., Jr.: Clinical Staging for Primary Malignancies of the Supraglottic Larynx ..... 69

Zimmerman, W.D., Ganzel, T.M., Windmill, I.M., Nazar, G.B., Phillips, M.: Peripheral Hearing Loss Following Head Trauma in Children ..... 87

# SUBJECT


## A

***Acetylsalicylic Acid Triad***

Endoscopic Sinus Surgery: 4-Year Follow-up on the First 100 Patients ..... 1117

***Acid-Induced Laryngospasm***

Effects of Acid on the Larynx of the Maturing Rabbit and Their Possible Significance to the Sudden Infant Death Syndrome ..... 1242

***Acoustic Neuroma***

Acoustic Neuroma Volume: MRI-Based Calculations and Clinical Implications ..... 1093

Atypical Hearing Loss in Acoustic Neuroma Patients ..... 437

Changing Clinical Presentation of Acoustic Tumors in the MRI Era ..... 431

Sudden Hearing Loss Induced by Acoustic Neuroma: Significance of Small Cell Tumors ..... 308

Treatment of an Acoustic Neuroma in an Only-Hearing Ear: Case Reports and Considerations for the Future ..... 976

***Acoustic Tumor Surgery***

Factors Affecting the Development of Cerebrospinal Fluid Leak and Meningitis After Translabyrinthine Acoustic Tumor Surgery ..... 959

***Acquired Cholesteatoma***

In Search of Missing Links in Otology. III. Development of a New Animal Model for Cholesteatoma ..... 774

***Acute Epiglottitis***

Acute Epiglottitis in the Adult: Experience With a Seasonal Presentation ..... 841

***Adductor Spastic Dysphonia***

Botulinum Toxin Injection for Adductor Spastic Dysphonia. Patient Self-Ratings of Voice and Phonatory Effort After Three Successive Injections ..... 683

***Adenoidectomy***

Effect of Tonsillectomy and Adenoidectomy on Neutrophil Chemotaxis ..... 1349

Peritubal Adenoidectomy ..... 1291

***Adenomatous Mastoid Neoplasms***

Reclassification of Aggressive Adenomatous Mastoid Neoplasms as Endolymphatic Sac Tumors ..... 1342

***Adipose Myringoplasty***

Adipose Myringoplasty in Children ..... 216

***AIDS***

HIV-Positive Physician—1992 ..... 333

Squamous Cell Carcinoma in HIV-Positive Patients Under Age 45 ..... 509

***Airway Pressure Monitoring***

Determining the Site of Airway Collapse in Obstructive Sleep Apnea With Airway Pressure Monitoring ..... 1126

***Airway Resistance***

Airway Resistance and Work of Breathing in Tracheostomy Tubes ..... 1367

***Albers-Schönberg Disease***

Facial Nerve Dysfunction in Osteopetrosis ..... 494

***Allergic Fungal Sinusitis***

Evidence of IgE-Mediated Hypersensitivity in Allergic Fungal Sinusitis ..... 717

***Allergic Rhinitis***

Quantitative Cytology of Nasal Secretions Under Various Conditions ..... 533

***Ammonium Sulfate Precipitation***

Biochemical Aspects of Autologous Fibrin Glue Derived From Ammonium Sulfate Precipitation ..... 193

***Amniotic Fluid Cellular Contents***

Abnormalities of the Neonatal Ear: Otoscopic Observations, Histologic Observations, and a Model for Contamination of the Middle Ear by Cellular Contents of Amniotic Fluid. ..... Suppl.58

***Amoxicillin***

Once-A-Day Therapy for Sinusitis: A Comparison Study of Cefixime and Amoxicillin ..... 33

***Anesthetic Technique***

Safe, Effective Anesthetic Technique for Outpatient Myringotomy Tube Placement ..... 92

***Angioedema***

Drug-Induced, Life-Threatening Angioedema Revisited .... 10

***Antecubital Fossa***

Neck Needle Foreign Bodies in Intravenous Drug Abusers ... 59

***Anterior Tracheal Defects***

Experimental Reconstruction of Anterior and Circumferential Defects of the Cervical Trachea ..... 1259

***AO Plate***

Indications for the AO Plate With a Myocutaneous Flap Instead of Revascularized Tissue Transfer for Mandibular Reconstruction ..... 1264

***Aortocoronary Bypass Surgery***

Sensorineural Hearing Loss Associated With Aortocoronary Bypass Surgery: A Prospective Analysis ..... 589

***Argon Laser***

Compatibility of the Argon and KTP Lasers With Middle Ear Implants ..... 609

***Arnold-Chiari Malformation***

Rebound Caloric Nystagmus ..... 1205

***Artificial Ventilation***

Tympanostomy Tubes: Experience With Removal ..... 659

***Aspergillus fumigatus***

Evidence of IgE-Mediated Hypersensitivity in Allergic Fungal Sinusitis ..... 717

***Aspiration Management***

Double-Barreled (Diversionary) Tracheostomy: Long-Term Results and Reversibility ..... 212

***Aspirin Intolerance***

Easy Bruisability, Aspirin Intolerance, and Response to DDAVP ..... 156

***Astograph***

Inhalation of Platelet-Activating Factor Increases Respiratory Resistance in Rats: Determination by Means of an Astograph Under Nonanesthetized Conditions ..... 428

***Aural Atresia***

Long-term Surgical Results for Congenital Aural Atresia .. 1097

***Aural Cholesteatoma***
Aberrant Expression of Epidermal Growth Factor Receptor in Aural Cholesteatoma ..... 326

***Autologous Fibrin Glue***
Biochemical Aspects of Autologous Fibrin Glue Derived From Ammonium Sulfate Precipitation ..... 193

***Autologous Keratinocyte Layers***
Long-term Results of Mastoid Cavities Grafted With Cultured Epithelium Prepared From Autologous Epidermal Cells to Prevent Chronic Otorrhea ..... 1121

**B**

***Bacterial Sinusitis***
Once-A-Day Therapy for Sinusitis: A Comparison Study of Cefixime and Amoxicillin ..... 33

***Basic Fibroblast Growth Factor***
Direct Application of Basic Fibroblast Growth Factor Improves Tympanic Membrane Perforation Healing ..... 804
Histological Study of the Healing of Traumatic Tympanic Membrane Perforation After Basic Fibroblast Growth Factor Application ..... 312

***Bell's Palsy***
Computer-Aided 3-D Reconstruction and Measurement of the Facial Canal and Facial Nerve. I. Cross-Sectional Area and Diameter: Preliminary Report ..... 1150
Idiopathic Facial Nerve Paralysis: A Randomized Double Blind Controlled Study of Placebo Versus Prednisone .... 1326

***Biopsy of Human Olfactory Epithelium***
Endoscopic Human Olfactory Biopsy Technique: A Preliminary Report ..... 815

***Blastomycosis***
Blastomycosis in Otolaryngology: Review of a Large Series 53

***Blom-Singer Prosthesis***
Microbial Colonization of Blom-Singer Prostheses in Postlaryngectomy Patients ..... 910

***Bone Resorption-Stimulating Factor***
Localization of Interleukin-1 in Human Squamous Cell Carcinomas of the Head and Neck ..... 529

***Bony Dehiscence***
Bony Dehiscence Between Singular Canal and Round Window Niche ..... 78

***Botulinum Toxin***
Botulinum Toxin Injection for Adductor Spastic Dysphonia: Patient Self-Ratings of Voice and Phonatory Effort After Three Successive Injections ..... 683

***Brachytherapy***
Intraoperative Versus Interstitial Radiotherapy: A Comparison of Morbidity in the Head and Neck ..... 231

***Bromocriptine***
Nasal Mucosal Congestion After Treatment With Bromocriptine ..... 1142

***Bruisability***
Easy Bruisability, Aspirin Intolerance, and Response to DDAVP ..... 156

**C**

***Caloric Stimulation***
Vestibular Decruitment: An Indicator of Central Pathology? 793

***Caloric Test***
Controlling the Caloric Labyrinthine Stimulus: Restoring Surface Temperature ..... 679

***Canal Wall Reconstruction***
Canal Wall Reconstruction: A Newer Implantation Technique 594

***Canaloplasty***
Long-term Surgical Results for Congenital Aural Atresia .. 1097

***Cancer Cell Implantation***
Decreasing the Risk of Implantation of Cancer Cells Intraoperatively ..... 825

***Cancer Staging***
Clinical Staging for Primary Malignancies of the Supraglottic Larynx ..... 69

***Canine Laryngeal Transplantation***
Orthotopic Laryngeal Transplantation: Is It Time? ..... 857

***Captopril***
Drug-Induced, Life-Threatening Angioedema Revisited .... 10

***Carcinoma In Situ***
Role of Radiation Therapy in the Management of Carcinoma In Situ of the Larynx ..... 663

***Cardiopulmonary Bypass Surgery***
Sensorineural Hearing Loss Associated With Aortocoronary Bypass Surgery: A Prospective Analysis ..... 589

***Cartilage Pâte***
Use of Cartilage Pâte in Rebuilding Mastoidectomy Cavities: An Alternative Method ..... 1380

***Cartilage Tympanoplasty***
Cartilage Tympanoplasty for Management of Retraction Pockets and Cholesteatomas ..... 614

***Cat Auditory Nerve***
Salicylate-Induced Changes in Cat Auditory Nerve Activity 600

***Cavernous Sinus***
Extended Middle Fossa Resection of Petroclival and Cavernous Sinus Neoplasms ..... 693

***Cefixime***
Once-A-Day Therapy for Sinusitis: A Comparison Study of Cefixime and Amoxicillin ..... 33

***Cemento-Ossifying Fibroma***
Juvenile Aggressive Cemento-Ossifying Fibroma: Case Report and Review of the Literature ..... 1385

***Cerebellopontine Angle***
Facial Neuroma of the Cerebellopontine Angle and the Internal Auditory Canal ..... 442

***Cerebrospinal Fluid Leak***
Factors Affecting the Development of Cerebrospinal Fluid Leak and Meningitis After Translabyrinthine Acoustic Tumor Surgery ..... 959

***Cervical Trachea***
Experimental Reconstruction of Anterior and Circumferential Defects of the Cervical Trachea ..... 1259
Use of the Platysma Myocutaneous Flap for Cervical Trachea Reconstruction: An Experimental Study in Dogs ..... 1161

***Chemotherapy***
Rhabdomyosarcoma of the Head and Neck in Adults: A Study of 26 Patients ..... 1362

***Cholesteatoma***
Aberrant Expression of Epidermal Growth Factor Receptor in Aural Cholesteatoma ..... 326
Cartilage Tympanoplasty for Management of Retraction Pockets and Cholesteatomas ..... 614
Differences in Dendritic Cells in Congenital and Acquired Cholesteatomas ..... 1214
Endoscopic-Guided Otosurgery in the Prevention of Residual Cholesteatomas ..... 939
Endoscopic 'Second Look' Mastoidoscopy to Rule Out Residual Epitympanic / Mastoid Cholesteatoma ..... 810
In Search of Missing Links in Otology. III. Development of a New Animal Model for Cholesteatoma ..... 774

***Cholinergic Agents***
Cholinergic Agents in the Laryngeal Chemoreflex Model of Sudden Infant Death Syndrome ..... 623

***Chronic Otorrhea***
Long-term Results of Mastoid Cavities Grafted With Cultured Epithelium Prepared From Autologous Epidermal Cells to Prevent Chronic Otorrhea ..... 1121

***Chronic Respiratory Failure***
Passy-Muir® Tracheostomy Speaking Valve on Ventilator-Dependent Patients ..... 653

***Chronic Sinusitis***
Functional Endoscopic Surgery in Children: A Retrospective Analysis of Results ..... 899
Nasal and Paranasal Sinus Anomalies in Children With Chronic Sinusitis ..... 247

***Cimetidine***
Role of $H_2$ Antagonists in Perennial Allergic Rhinitis ..... 1013

***Cinepharyngoesophagrams***
Radiologic Assessment of the Early Postoperative Total-Laryngectomy Patient ..... 1157

***Ciprofloxacin***
Increased Cytotoxicity of Squamous Cell Carcinoma of the Head and Neck by Combining Cisplatin With VP-16 and Ciprofloxacin ..... 1081

***Cis-platinum***
Implications of Positive Surgical Margins ..... 64

***Cleft Lip and Palate***
Nasal Airway Size in Cleft and Noncleft Children ..... 915

***Click-Evoked Otoacoustic Emissions***
Otoacoustic Emissions in Full-Term Newborns at Risk for Hearing Loss ..... 1334

***Clinical Prediction Model***
Serologic Determinants of Survival in Patients With Head and Neck Cancer: Validating a Clinical Prediction Model 13

***Cochlear Implants***
Insertional Trauma of Multichannel Cochlear Implants ... 995
Multichannel (Ineraid®) Cochlear Implant Update ..... 835
Surgical Pitfalls in Cochlear Implantation ..... 741

***Cochlear Nucleus***
Metabolic Activity of the Central Auditory Structures Following Prolonged Deafferentation ..... 399

***Cochleovestibular Dysfunction***
Neurologic Paraneoplastic Syndromes With Neurotologic Manifestations ..... 754

***Cockroaches in the Ear***
Ear Foreign-Body Removal: A Review of 98 Consecutive Cases ..... 367

***Composite Graft Tympanoplasty***
Composite Graft Tympanoplasty in the Treatment of Ears With Advanced Middle Ear Pathology ..... 1352

***Compound Action Potential***
Histologic Correlation of the Degenerating Facial Nerve With Electroneurography ..... 178

***Computed Tomography***
Computed Tomography, Magnetic Resonance Imaging, and Electromyographic Studies of Tensor Veli Palatini Muscles in Patients With Nasopharyngeal Carcinoma ..... 673
Coronal CT Abnormalities in Children With Chronic Sinusitis ..... 985
Effect of a Topical Vasoconstrictor on Computed Tomography of Paranasal Sinus Disease ..... 6

***Computerized Dynamic Posturography***
Clinical Comparisons of Posturography and Electronystagmography ..... 713

***Concave Lateral Crus***
Lateral Crural Turnover Graft: Correction of the Concave Lateral Crus ..... 463

***Congenital Aural Atresia***
Long-term Surgical Results for Congenital Aural Atresia .. 1097

***Congenital Auricular Atresia***
Facial Nerve Monitoring in Surgery for Congenital Auricular Atresia ..... 406

***Contact Diode Laser***
Contact Diode Laser Microvascular Anastomosis ..... 850

***Costochondral Pharyngeal Implants***
Costochondral Pharyngeal Implants for Velopharyngeal Insufficiency ..... 565

***Cranial Base Surgery***
Facial Nerve Management in Cranial Base Surgery ..... 291

***Cranial Nerve Decompression***
Use of the Holmium:Yttrium Aluminum Garnet (Ho:YAG) Laser for Cranial Nerve Decompression: An In Vivo Study Using the Rabbit Model ..... 631

***Craniofacial Prostheses***
Stabilization of Craniofacial Prostheses Using Osseointegrated Titanium Implants ..... 1399

***Craniovertebral Junction***
Lateral Approach to Tumors of the Craniovertebral Junction 343

***Cricoarytenoid Fixation***
Clinical Differentiation Between Vocal Cord Paralysis and Vocal Cord Fixation Using Electromyography ..... 133

***Cricopharyngeus Myotomy***
Effect of Cricopharyngeus Myotomy on Postlaryngectomy Pharyngeal Contraction Pressures ..... 138

***Cricothyroid Muscle***
Configuration of the Glottis in Laryngeal Paralysis. I: Clinical Study ..... 1227
Configuration of the Glottis in Laryngeal Paralysis. II: Animal Experiments ..... 1235

***Cyanoacrylates***
Composite TORPS and PORPS for Ossicular Reconstruction 94
Effects of Cyanoacrylate Tissue Adhesives on Cartilage Graft Viability ... 798

***Cyclosporin A***
Effects of Cyclosporin A on Transplanted Rat Allografts ... 394

***Cytokeratin***
Primary Culture of Reissner's Membrane From the Gerbil: Growth, Morphologic Features, and Characterization .... 645

***Cytomegalic Inclusion Disease***
Temporal Bone Histopathology 14 Years After Cytomegalic Inclusion Disease: A Case Study ... 904

**D**

***DDAVP***
Easy Bruisability, Aspirin Intolerance, and Response to DDAVP ... 156

***Dendritic Cells***
Differences in Dendritic Cells in Congenital and Acquired Cholesteatomas ... 1214

***[$^{14}$C]-2-Deoxyglucose***
Metabolic Activity of the Central Auditory Structures Following Prolonged Deafferentation ... 399

***Depth of Invasion***
Significance of Tumor Thickness in Soft Palate Carcinoma 389

***Diagnostic Ultrasound in Otolaryngology***
Role of Real-Time Ultrasonography in an Otolaryngology Office Setting ... 570

***Disinfection Methods***
Microbial Adherence to and Distribution of Laryngoscopes Used in Office Practice ... 503

***Distortion Product Otoacoustic Emissions***
Otoacoustic Emissions in Full-Term Newborns at Risk for Hearing Loss ... 1334

***Double-Barreled Tracheostomy***
Double-Barreled (Diversionary) Tracheostomy: Long-Term Results and Reversibility ... 212

***Drug-Induced Angioedema***
Drug-Induced, Life-Threatening Angioedema Revisited .... 10

***Dysphagia***
Surgical Anatomy of the Glossopharyngeal Nerve ... 1302

**E**

***E Trisomy Syndrome***
Three-Dimensional Reconstruction of the Temporal Bone From a Case of E Trisomy Syndrome ... 541

***Ear Foreign-Body Removal***
Ear Foreign-Body Removal: A Review of 98 Consecutive Cases ... 367

***Effector Phase Inhibition***
Serum and Acute Phase Protein Modulation of the Effector Phase of Lymphokine-Activated Killer Cells ... 299

***Electrocautery***
Comparison of Two Methods of Tonsillectomy ... 619

***Electrocochleography***
Intrasubject Test-Retest Variability in Clinical Electrocochleography ... 963

***Electromyography***
Clinical Differentiation Between Vocal Cord Paralysis and Vocal Cord Fixation Using Electromyography ... 133
Facial Nerve Monitoring in Surgery for Congenital Auricular Atresia ... 406

***Electroneurography***
Histologic Correlation of the Degenerating Facial Nerve With Electroneurography ... 178

***Electroneuronography***
Nerve Excitability Testing: Technical Pitfalls and Threshold Norms Using Absolute Values ... 379

***Electronystagmography***
Clinical Comparisons of Posturography and Electronystagmography ... 713

***Endolymphatic Hydrops***
Symptomatic Versus Asymptomatic Endolymphatic Hydrops: A Histopathologic Comparison ... 277
Temporal Bone Histopathology 14 Years After Cytomegalic Inclusion Disease: A Case Study ... 904

***Endolymphatic Sac***
Immunoperoxidase Study of the Endolymphatic Sac in Meniere's Disease ... 1027

***Endolymphatic Sac Tumors***
Reclassification of Aggressive Adenomatous Mastoid Neoplasms as Endolymphatic Sac Tumors ... 1342

***Endoscopic Mastoidoscopy***
Endoscopic 'Second Look' Mastoidoscopy to Rule out Residual Epitympanic / Mastoid Cholesteatoma ... 810

***Endoscopic Microsurgeries***
High-Risk Areas in Endoscopic Sinus Surgery and Prevention of Complications ... 1181

***Endoscopic Sinus Surgery***
Endoscopic Sinus Surgery: 4-Year Follow-up on the First 100 Patients ... 1117

***Endoscopic-Guided Otosurgery***
Endoscopic-Guided Otosurgery in the Prevention of Residual Cholesteatomas ... 939

***Endothelial Cell Growth Factor***
Endothelial Cell Growth Factor (ECGF) Application to Irradiated Soft Tissue ... 165

***Eosinophil Cationic Protein***
Eosinophil Cationic Protein in the Nasal Secretions of Patients With Mite Allergic Rhinitis ... 189

***Epidermal Growth Factor Receptor***
Aberrant Expression of Epidermal Growth Factor Receptor in Aural Cholesteatoma ... 326
Oncogenes in Head and Neck Cancer ... 42

***Epidermoid Carcinoma***
Prognostic Value of Histopathological Parameters in 51 Supraglottic Squamous Cell Carcinomas ... 538

***Epiglottic Laryngoplasty***
Revision Surgery for Sedlacek-Kambic-Tucker Epiglottic Laryngoplasty ... 820

***Epiglottitis in Adults***
Acute Epiglottitis in the Adult: Experience With a Seasonal Presentation ... 841

***Epiglottoplasty***
Modified Epiglottoplasty for Prevention of Aspiration ..... 1395

***Esophageal Cancer***
Photodynamic Therapy for Treatment of Esophageal Cancer: A Preliminary Report ..... 699

***Ethmoidectomy***
High-Risk Areas in Endoscopic Sinus Surgery and Prevention of Complications ..... 1181

***Eustachian Tube Muscles***
Motor Innervation of the Eustachian Tube Muscles in the Guinea Pig ..... 1218

***Evoked Middle Latency Response***
Metabolic Activity of the Central Auditory Structures Following Prolonged Deafferentation ..... 399

***Exploratory Tympanotomy***
Congenital Perilymphatic Fistula and Associated Middle Ear Abnormalities ..... 160

***Extended Parotidectomy***
Facial Nerve Morbidity Following Parotid Surgery for Benign Disease: The Cleveland Clinic Foundation Experience ... 386

***External Auditory Meatus***
Facial Nerve Near the External Auditory Meatus in Man: Computer Reconstruction Study—Preliminary Report ... 1043

***Extrapulmonary Airways***
Resistance to Respiratory Airflow of the Extrapulmonary Airways ..... 447

**F**

***Facial Nerve***
Computer-Aided 3-D Reconstruction and Measurement of the Facial Canal and Facial Nerve. I. Cross-Sectional Area and Diameter: Preliminary Report ..... 1150
Facial Nerve Dysfunction in Osteopetrosis ..... 494
Facial Nerve Management in Cranial Base Surgery ..... 291
Facial Nerve Monitoring in Surgery for Congenital Auricular Atresia ..... 406
Facial Nerve Morbidity Following Parotid Surgery for Benign Disease: The Cleveland Clinic Foundation Experience ... 386
Facial Nerve Near the External Auditory Meatus in Man: Computer Reconstruction Study—Preliminary Report ... 1043
Histologic Correlation of the Degenerating Facial Nerve With Electroneurography ..... 178

***Facial Neuroma***
Facial Neuroma of the Cerebellopontine Angle and the Internal Auditory Canal ..... 442

***Facial Reconstruction***
Effects of Cyanoacrylate Tissue Adhesives on Cartilage Graft Viability ..... 798

***Fenestrated Vessels***
Role of Fenestrated Vessels for the Secretory Process in the Nasal Mucosa: A Histologic and Transmission Electron Microscopic Study in the Rabbit ..... 1255

***Fetal Temporal Bones***
Ossification Patterns of the Tympanic Facial Canal in the Human Fetus and Neonate ..... 1052

***Fiberoptic Endoscopy***
Microbial Adherence to and Distribution of Laryngoscopes Used in Office Practice ..... 503

***Fibrinolysis Inhibitors***
Biochemical Aspects of Autologous Fibrin Glue Derived From Ammonium Sulfate Precipitation ..... 193

***Fibrinolytic Enzyme***
Fibrin Binding, Fibrinolytic and Fibrinogenolytic Activity of Plasminogen Activator Derived From the Paranasal Mucous Membrane of Humans ..... 197

***Fibroblast Growth Factor***
Endothelial Cell Growth Factor (ECGF) Application to Irradiated Soft Tissue ..... 165

***Fine Needle Aspiration***
Fine Needle Aspiration (FNA) in Diagnosing Recurrent Squamous Cell Carcinoma of the Head and Neck: Truth or Consequences? ..... 1073

***Flap Survival***
Hemodynamics of the Rodent Abdominal Skin Flap Following Primary Ischemia ..... 981

***Flexible Fiberoptic Esophagoscopy***
Technique of Tracheoesophageal Puncture Using Flexible Fiberoptic Esophagoscopy ..... 928

***Flow Cytometry***
DNA Analysis of Head and Neck Squamous Cell Carcinoma by Flow Cytometry ..... 637

***Fluorescein***
Pharmacologic Manipulation of Random Skin Flaps With Pentoxifylline ..... 185

***Follicular Cells***
DNA- and Viral-Mediated Gene Transfer in Follicular Cells: Progress Toward Gene Therapy of the Thyroid ..... 1084

***Follicular Neoplasm***
Role of Subtotal Thyroidectomy in the Management of the Follicular Neoplasm of the Thyroid ..... 477

***Foreign Bodies in the Ear***
Ear Foreign-Body Removal: A Review of 98 Consecutive Cases ..... 367

***Free Jejunal Autografts***
Free Jejunal Autografts for Immediate Voice Restoration Following Laryngectomy ..... 96

***Free-Tissue Transfer***
Comparison of Suture Versus Laser-Assisted Microvascular Anastomosis (LAMA) in the Pig Buttock Flap Model .... 1002

***Frontal Recess Dissection***
Endoscopic Frontal Recess and Frontal Sinus Ostium Dissection ..... 455

***Frontal Sinus Trauma***
Use of Bone for Obliteration of the Nasofrontal Duct With the Osteoplastic Flap: A Cat Model ..... 883

***Full-Larynx Phonation***
Methodological Study of Hemilaryngeal Phonation ..... 872

***Functional Endonasal Sinus Surgery***
Functional Endonasal Sinus Surgery in Adults and Children 1

***Functional Endoscopic Sinus Surgery***
Functional Endoscopic Surgery in Children: A Retrospective Analysis of Results ..... 899
Importance of Preoperative Nasal Endoscopy in Patients With Sinonasal Disease ..... 512

Nasal and Paranasal Sinus Anomalies in Children With Chronic Sinusitis ..... 247
Treatment for Primary Ciliary Dyskinesia: Efficacy of Functional Endoscopic Sinus Surgery ..... 1269

***Fungal Infection of the Lungs***
Blastomycosis in Otolaryngology: Review of a Large Series 53

**G**

***Gadolinium-DTPA***
Magnetic Resonance Imaging of Perilymphatic Fistula .... 729

***Gadolinium-Enhanced MRI***
Sudden Hearing Loss Induced by Acoustic Neuroma: Significance of Small Cell Tumors ..... 308

***Galvanically-Induced Vestibulo-Ocular Reflex***
Galvanically-Induced Vestibulo-Ocular Reflex in the Cat ... 1108

***Gastroesophageal Reflux***
Effects of Acid on the Larynx of the Maturing Rabbit and Their Possible Significance to the Sudden Infant Death Syndrome ..... 1242

***Gelfoam®***
Direct Application of Basic Fibroblast Growth Factor Improves Tympanic Membrane Perforation Healing ..... 804

***Gene Transfer***
DNA- and Viral-Mediated Gene Transfer in Follicular Cells: Progress Toward Gene Therapy of the Thyroid ..... 1084

***Gentamicin***
Irritative Spontaneous Nystagmus Following Intratympanic Gentamicin for Meniere's Disease ..... 745

***Giant Cell Arteritis***
Meniere's Syndrome: An Atypical Presentation of Giant Cell Arteritis (Temporal Arteritis) ..... 1103

***Glomus Tumors***
Neurotologic Skull Base Surgery for Glomus Tumors ...Suppl. 60
Neurovascular Considerations in Surgery of Glomus Tumors With Intracranial Extensions ..... 722

***Glossectomy***
Tongue Reconstruction: Concepts and Practice ..... 1132

***Glossopharyngeal Nerve***
Surgical Anatomy of the Glossopharyngeal Nerve ..... 1302

***Glottic Adduction***
Electronic Control of Laryngeal Spasm. II. Selective Blockage of Glottic Adduction by a Closed-Loop Circuit in the Canine ..... 734

***Glottic Configuration***
Configuration of the Glottis in Laryngeal Paralysis. I: Clinical Study ..... 1227
Configuration of the Glottis in Laryngeal Paralysis. II: Animal Experiments ..... 1235

***Glucocorticoid Receptors***
Localization of Glucocorticoid Receptors and Glucocorticoid Receptor mRNAs in the Rat Cochlea ..... 865

***Goitrous Hypothyroidism***
Hashimoto's Thyroiditis and Carcinoma of the Thyroid: Optimal Management ..... 845

***Gold Weights***
Gold Weight or Spring Implants and MRI ..... 930

**H**

***$H_2$ Antagonists***
Role of $H_2$ Antagonists in Perennial Allergic Rhinitis ..... 1013

***Hashimoto's Thyroiditis***
Hashimoto's Thyroiditis and Carcinoma of the Thyroid: Optimal Management ..... 845

***Head and Neck Cancer***
Serologic Determinants of Survival in Patients With Head and Neck Cancer: Validating a Clinical Prediction Model 13

***Head Trauma***
Peripheral Hearing Loss Following Head Trauma in Children 87

***Hearing Loss***
Atypical Hearing Loss in Acoustic Neuroma Patients ..... 437
Changing Clinical Presentation of Acoustic Tumors in the MRI Era ..... 431

***Hearing Recovery***
Outcome of Sudden Deafness With and Without Vertigo ... 1145

***Hemilaryngeal Phonation***
Methodological Study of Hemilaryngeal Phonation ..... 872

***Hemipharyngectomy***
Hemipharyngectomy and Hemilaryngectomy for Pyriform Sinus Cancer: Reconstruction With Remaining Larynx and Hypopharynx and With Tracheostomy ..... 82

***High Endothelial Venules***
Development of High Endothelial Venule-Like Characteristics in the Spinal Modiolar Vein Induced by Viral Labyrinthitis ..... 890

***HIV-Positive Physician***
HIV-Positive Physician—1992 ..... 333

***Hoarse-Voice Synthesizer***
Analysis-by-Synthesis Approach to the Estimation of Vocal Cord Polyp Features ..... 1035

***Horizontal Vestibulo-Ocular Reflex***
Galvanically-Induced Vestibulo-Ocular Reflex in the Cat ... 1108

***How I Do It***
Adipose Myringoplasty in Children ..... 216
Composite TORPS and PORPS for Ossicular Reconstruction 94
Costochondral Pharyngeal Implants for Velopharyngeal Insufficiency ..... 565
Cutting the Middle Meatal Window ..... 1179
Decreasing the Risk of Implantation of Cancer Cells Intraoperatively ..... 825
Double-Barreled (Diversionary) Tracheostomy: Long-Term Results and Reversibility ..... 212
Electromyographic Recording of Tensor and Levator Veli Palatini Muscles: A Modified Transnasal Insertion Method 459
Endoscopic Frontal Recess and Frontal Sinus Ostium Dissection ..... 455
Endoscopic Human Olfactory Biopsy Technique: A Preliminary Report ..... 815
Endoscopic 'Second Look' Mastoidoscopy to Rule Out Residual Epitympanic / Mastoid Cholesteatoma ..... 810
Endoscopic-Guided Otosurgery in the Prevention of Residual Cholesteatomas ..... 939
Excision of Rhinophyma With Nd:YAG Laser: A New Technique ..... 101

Extended Middle Fossa Resection of Petroclival and Cavernous Sinus Neoplasms ..... 693
Fine Needle Aspiration (FNA) in Diagnosing Recurrent Squamous Cell Carcinoma of the Head and Neck: Truth or Consequences? ..... 1073
Free Jejunal Autografts for Immediate Voice Restoration Following Laryngectomy ..... 96
Gold Weight or Spring Implants and MRI ..... 930
High-Risk Areas in Endoscopic Sinus Surgery and Prevention of Complications ..... 1181
HIV-Positive Physician—1992 ..... 333
Hydroxylapatite Prosthesis for Defects of the Incus Long Process ..... 330
Image-Guided Intervention for Diagnosis and Treatment of Disorders of the Head and Neck ..... 924
Improvements in the Assessment of Pulmonary Function in Laryngectomized Patients ..... 1391
Infratympanic Extended Facial Recess Approach for Anteriorly Extensive Middle Ear Disease: A Conservation Technique ..... 451
Juvenile Aggressive Cemento-Ossifying Fibroma: Case Report and Review of the Literature ..... 1385
Lateral Approach to Tumors of the Craniovertebral Junction 343
Lateral Crural Turnover Graft: Correction of the Concave Lateral Crus ..... 463
Microsurgical Bipolar Cautery Tonsillectomy ..... 1177
Modified Epiglottoplasty for Prevention of Aspiration ..... 1395
Neo-Oval Window Technique and Myringo-Chorda-Vestibulopexy in the BOR Syndrome ..... 1186
Otosclerosis Regrowth ..... 1383
Parietal Bone Graft and Titanium Plate Fixation in Nasal Reconstruction ..... 1066
Patient Use of 'Telemetric' ENG to Register Nystagmus in the Private Sphere ..... 704
Peritubal Adenoidectomy ..... 1291
Photodynamic Therapy for Treatment of Esophageal Cancer: A Preliminary Report ..... 699
Primary Reconstruction of the Hypopharynx Following Pharyngolaryngectomy ..... 338
Real-Time Intraoperative Ultrasonography as a Monitoring Technique for Nd:YAG-Laser Palliation of Unresectable Head and Neck Tumors: Initial Experience ..... 559
Resistance to Osteoradionecrosis in Neovascularized Bone 1168
Revision Surgery for Sedlacek-Kambic-Tucker Epiglottic Laryngoplasty ..... 820
Role of Real-Time Ultrasonography in an Otolaryngology Office Setting ..... 570
Safe, Effective Anesthetic Technique for Outpatient Myringotomy Tube Placement ..... 92
Stabilization of Craniofacial Prostheses Using Osseointegrated Titanium Implants ..... 1399
Subcutaneous Pedicled Extension Flap: A New Development in Random Flaps ..... 1293
Suboccipital Vestibular Neurectomy: Results and Complications ..... 936
Surgical Anatomy of the Glossopharyngeal Nerve ..... 1302
Technique of Tracheoesophageal Puncture Using Flexible Fiberoptic Esophagoscopy ..... 928
Temporoparietal Fascial Flap in Orbital Reconstruction ... 931
Three-Dimensional Video Imaging in Otolaryngology—Head and Neck Surgery ..... 1174
Treatment of the Compromised Trachea With Sleeve Resection and Primary Repair ..... 203
Use of Cartilage Pâte in Rebuilding Mastoidectomy Cavities: An Alternative Method ..... 1380

***Ho:YAG Laser***

Use of the Holmium:Yttrium Aluminum Garnet (Ho:YAG) Laser for Cranial Nerve Decompression: An In Vivo Study Using the Rabbit Model ..... 631

***Human Papillomavirus***

Polymerase Chain Reaction (PCR) Identification of Human Papillomavirus (HPV) DNA in Verrucous Carcinoma of the Larynx ..... 416
Verrucous Carcinoma of the Larynx: Role of Human Papillomavirus, Radiation, and Surgery ..... 253

***Hydroxylapatite***

Canal Wall Reconstruction: A Newer Implantation Technique 594
Hydroxylapatite Prosthesis for Defects of the Incus Long Process ..... 330

***Hyperbaric Oxygen***

Role of Hyperbaric Oxygen Therapy in the Management of Mandibular Osteoradionecrosis ..... 605

***Hyperparathyroidism***

Hyperparathyroidism Induced by Hypothyroidism ..... 263

***Hypopharyngeal Squamous Cell Carcinoma***

Supracricoid Hemilaryngopharyngectomy in Selected Pyriform Sinus Carcinoma Staged as T2 ..... 1373

***Hypothyroidism***

Ionized Serum Calcium Levels Following Combined Treatment for Cancer of the Head and Neck ..... 1048

**I**

***Idiopathic Facial Nerve Paralysis***

Idiopathic Facial Nerve Paralysis: A Randomized Double Blind Controlled Study of Placebo Versus Prednisone .... 1326

***Immobile Vocal Folds***

Complications of Laryngeal Framework Surgery (Phonosurgery) ..... 525

***Immune Complexes***

Immunoperoxidase Study of the Endolymphatic Sac in Meniere's Disease ..... 1027

***Immunotherapy***

Serum and Acute Phase Protein Modulation of the Effector Phase of Lymphokine-Activated Killer Cells ..... 299

***Incus Long Process***

Hydroxylapatite Prosthesis for Defects of the Incus Long Process ..... 330

***Ineraid®***

Multichannel (Ineraid®) Cochlear Implant Update ..... 835
Surgical Pitfalls in Cochlear Implantation ..... 741

***Infratympanic Extended Facial Recess Approach***

Infratympanic Extended Facial Recess Approach for Anteriorly Extensive Middle Ear Disease: A Conservation Technique ..... 451

***Inner Ear-Specific Autoantibodies***

Inner Ear-Specific Autoantibodies ..... 319

***Insertional Trauma***

Insertional Trauma of Multichannel Cochlear Implants ... 995

***Interleukin-1***
Localization of Interleukin-1 in Human Squamous Cell Carcinomas of the Head and Neck ..... 529

***Internal Auditory Canal***
Facial Neuroma of the Cerebellopontine Angle and the Internal Auditory Canal ..... 442

***Intracranial Paragangliomas***
Neurovascular Considerations in Surgery of Glomus Tumors With Intracranial Extensions ..... 722

***Intraoperative Radiation Therapy***
Intraoperative Versus Interstitial Radiotherapy: A Comparison of Morbidity in the Head and Neck ..... 231

***Intravenous Drug Abuse***
Neck Needle Foreign Bodies in Intravenous Drug Abusers ... 59

***Ionized Serum Calcium***
Ionized Serum Calcium Levels Following Combined Treatment for Cancer of the Head and Neck ..... 1048

***Irradiated Tissue***
Endothelial Cell Growth Factor (ECGF) Application to Irradiated Soft Tissue ..... 165

***Ischemia***
Hemodynamics of the Rodent Abdominal Skin Flap Following Primary Ischemia ..... 981

**J**

***Juvenile Ossifying Fibroma***
Juvenile Aggressive Cemento-Ossifying Fibroma: Case Report and Review of the Literature ..... 1385

**K**

***Kartagener's Syndrome***
Treatment for Primary Ciliary Dyskinesia: Efficacy of Functional Endoscopic Sinus Surgery ..... 1269

***Keratoma***
In Search of Missing Links in Otology. III. Development of a New Animal Model for Cholesteatoma ..... 774

***KTP Laser***
Compatibility of the Argon and KTP Lasers With Middle Ear Implants ..... 609

**L**

***Labyrinthectomy***
Surgery for Vertigo in the Nonserviceable Hearing Ear: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section ..... 1321

***Laryngeal Allograft Rejection***
Effects of Cyclosporin A on Transplanted Rat Allografts ... 394

***Laryngeal Blastomycosis***
Blastomycosis in Otolaryngology: Review of a Large Series 53

***Laryngeal Cancer***
Prognostic Significance of Sinus Histiocytosis in Metastatic Laryngeal Cancer ..... 498

***Laryngeal Carcinoma In Situ***
Role of Radiation Therapy in the Management of Carcinoma In Situ of the Larynx ..... 663

***Laryngeal Chemoreflex***
Cholinergic Agents in the Laryngeal Chemoreflex Model of Sudden Infant Death Syndrome ..... 623

***Laryngeal Expansion Surgery***
Does Early Expansion Surgery Have a Role in the Management of Congenital Subglottic Stenosis? ..... 286

***Laryngeal Framework Surgery***
Complications of Laryngeal Framework Surgery (Phonosurgery) ..... 525

***Laryngeal Function***
Three Bellies of the Canine Posterior Cricoarytenoid Muscle: Implications for Understanding Laryngeal Function ..... 171

***Laryngeal Paralysis***
Configuration of the Glottis in Laryngeal Paralysis. I: Clinical Study ..... 1227

Configuration of the Glottis in Laryngeal Paralysis. II: Animal Experiments ..... 1235

***Laryngeal Reconstruction***
Laryngeal Reconstruction Following Vertical Partial Laryngectomy ..... 109

***Laryngeal Resistance***
Laryngeal Resistance to Respiratory Airflow in Humans .. 785

***Laryngeal Spasm***
Electronic Control of Laryngeal Spasm. II. Selective Blockage of Glottic Adduction by a Closed-Loop Circuit in the Canine ..... 734

***Laryngeal Transplantation***
Orthotopic Laryngeal Transplantation: Is It Time? ..... 857

***Laryngeal Verrucous Carcinoma***
Verrucous Carcinoma of the Larynx: Role of Human Papillomavirus, Radiation, and Surgery ..... 253

***Laryngectomy***
Microbial Colonization of Blom-Singer Prostheses in Postlaryngectomy Patients ..... 910

***Laryngopharyngectomy***
Primary Reconstruction of the Hypopharynx Following Pharyngolaryngectomy ..... 338

***Laryngoscopes***
Microbial Adherence to and Distribution of Laryngoscopes Used in Office Practice ..... 503

***Laryngotracheoplasty***
Partial Cricoid Resection With Primary Tracheal Anastomosis for Subglottic Stenosis in Infants and Children 1273

***Laser Anastomosis***
Contact Diode Laser Microvascular Anastomosis ..... 850

***Laser-Assisted Microvascular Anastomosis***
Comparison of Suture Versus Laser-Assisted Microvascular Anastomosis (LAMA) in the Pig Buttock Flap Model .... 1002

***Lasers***
Compatibility of the Argon and KTP Lasers With Middle Ear Implants ..... 609

Pitfalls in Evaluation of Photosensitizing Agents: An Example With Q-Switch II Dye ..... 1284

Use of the Holmium:Yttrium Aluminum Garnet (Ho:YAG) Laser for Cranial Nerve Decompression: An In Vivo Study Using the Rabbit Model ..... 631

***Lateral Approach to Craniovertebral Junction***
Lateral Approach to Tumors of the Craniovertebral Junction 343

***Lateral Crural Turnover Graft***
Lateral Crural Turnover Graft: Correction of the Concave Lateral Crus ..... 463

***Latissimus Dorsi Flap***
Tongue Reconstruction: Concepts and Practice ..... 1132

***Lentigo Maligna Melanoma***
Lentigo Maligna Melanoma of the Head and Neck ..... 520

***Levator Veli Palatini***
Electromyographic Recording of Tensor and Levator Veli Palatini Muscles: A Modified Transnasal Insertion Method 459
Motor Innervation of the Eustachian Tube Muscles in the Guinea Pig ..... 1218

***Lymphocyte Proliferation***
Effect of Specific Bacteria on Lymphocyte Proliferation in Diseased and Nondiseased Tonsils ..... 1020

***Lymphokine-Activated Killer Cells***
Serum and Acute Phase Protein Modulation of the Effector Phase of Lymphokine-Activated Killer Cells ..... 299

***Lymphoma***
Lymphoma of the Parotid Gland ..... 17

**M**

***Major Basic Protein***
Eosinophil Cationic Protein in the Nasal Secretions of Patients With Mite Allergic Rhinitis ..... 189

***Mandibular Osteoradionecrosis***
Role of Hyperbaric Oxygen Therapy in the Management of Mandibular Osteoradionecrosis ..... 605

***Mandibular Reconstruction***
Indications for the AO Plate With a Myocutaneous Flap Instead of Revascularized Tissue Transfer for Mandibular Reconstruction ..... 1264

***Manpower Demands in Otolaryngology***
Otolaryngology Manpower in the Year 2010 ..... 750

***Mastoidectomy***
Canal Wall Reconstruction: A Newer Implantation Technique 594
Long-term Results of Mastoid Cavities Grafted With Cultured Epithelium Prepared From Autologous Epidermal Cells to Prevent Chronic Otorrhea ..... 1121

***Mastoidectomy Cavities***
Use of Cartilage Pâte in Rebuilding Mastoidectomy Cavities: An Alternative Method ..... 1380

***Maximum Stimulation Test***
Nerve Excitability Testing: Technical Pitfalls and Threshold Norms Using Absolute Values ..... 379

***Medial Maxillectomy***
Three-Dimensional Video Imaging in Otolaryngology—Head and Neck Surgery ..... 1174

***Meniere's Disease***
Immunoperoxidase Study of the Endolymphatic Sac in Meniere's Disease ..... 1027
Intrasubject Test-Retest Variability in Clinical Electrocochleography ..... 963
Irritative Spontaneous Nystagmus Following Intratympanic Gentamicin for Meniere's Disease ..... 745
Symptomatic Versus Asymptomatic Endolymphatic Hydrops: A Histopathologic Comparison ..... 277
Treatment of an Acoustic Neuroma in an Only-Hearing Ear: Case Reports and Considerations for the Future ..... 976

***Meniere's Syndrome***
Meniere's Syndrome: An Atypical Presentation of Giant Cell Arteritis (Temporal Arteritis) ..... 1103

***Meningitis***
Factors Affecting the Development of Cerebrospinal Fluid Leak and Meningitis After Translabyrinthine Acoustic Tumor Surgery ..... 959

***Mesenchymal Cells***
Primary Culture of Reissner's Membrane From the Gerbil: Growth, Morphologic Features, and Characterization .... 645

***Mesotympanic Disease***
Infratympanic Extended Facial Recess Approach for Anteriorly Extensive Middle Ear Disease: A Conservation Technique ..... 451

***Metastatic Cancer***
Decreasing the Risk of Implantation of Cancer Cells Intraoperatively ..... 825

***Metastatic Neck Disease***
Nodal Size of Metastatic Squamous Cell Carcinoma of the Neck ..... 854

***Metastatic Papillary Carcinoma***
Nonpalpable Occult and Metastatic Papillary Thyroid Carcinoma ..... 149

***Microbial Colonization***
Microbial Colonization of Blom-Singer Prostheses in Postlaryngectomy Patients ..... 910

***Microsurgical Tonsillectomy***
Microsurgical Bipolar Cautery Tonsillectomy ..... 1177

***Microvascular Anastomosis***
Contact Diode Laser Microvascular Anastomosis ..... 850

***Microvascular Decompression***
Vascular Decompression Surgery for Severe Tinnitus: Selection Criteria and Results ..... 421

***Middle Ear Abnormalities***
Congenital Perilymphatic Fistula and Associated Middle Ear Abnormalities ..... 160

***Middle Ear Disease***
Middle Ear Disease in Young Children With Sensorineural Hearing Loss ..... 371

***Middle Meatal Window***
Cutting the Middle Meatal Window ..... 1179

***Minimally Invasive Surgery***
Image-Guided Intervention for Diagnosis and Treatment of Disorders of the Head and Neck ..... 924

***Mite Allergic Rhinitis***
Eosinophil Cationic Protein in the Nasal Secretions of Patients With Mite Allergic Rhinitis ..... 189

***Mobile Stapes***
Manipulating the Mobile Stapes During Tympanoplasty: The Risk of Stapedial Luxation ..... 668

***Morphometry of Vestibular Complex***
Morphometric Analysis of the Vestibular Complex in the Rat 762

***MRI***
Acoustic Neuroma Volume: MRI-Based Calculations and

Clinical Implications ..... 1093
Atypical Hearing Loss in Acoustic Neuroma Patients ..... 437
Changing Clinical Presentation of Acoustic Tumors in the MRI Era ..... 431
Computed Tomography, Magnetic Resonance Imaging, and Electromyographic Studies of Tensor Veli Palatini Muscles in Patients With Nasopharyngeal Carcinoma ..... 673
Image-Guided Intervention for Diagnosis and Treatment of Disorders of the Head and Neck ..... 924
Magnetic Resonance Imaging of Perilymphatic Fistula .... 729

***mRNAs***
Localization of Glucocorticoid Receptors and Glucocorticoid Receptor mRNAs in the Rat Cochlea ..... 865

***Mucormycosis***
Clinical Signs of Orbital Ischemia in Rhino-Orbitocerebral Mucormycosis ..... 1357

***Multichannel Cochlear Implants***
Insertional Trauma of Multichannel Cochlear Implants ... 995
Multichannel (Ineraid®) Cochlear Implant Update ..... 835
Surgical Pitfalls in Cochlear Implantation ..... 741

***Muscle Bellies***
Technique for Displaying the Entire Nerve Branching Pattern of a Whole Muscle: Results in 10 Canine Posterior Cricoarytenoid Muscles ..... 141
Three Bellies of the Canine Posterior Cricoarytenoid Muscle: Implications for Understanding Laryngeal Function ..... 171

***Myocutaneous Flap***
Indications for the AO Plate With a Myocutaneous Flap Instead of Revascularized Tissue Transfer for Mandibular Reconstruction ..... 1264

***Myringo-Chorda-Vestibulopexy***
Neo-Oval Window Technique and Myringo-Chorda-Vestibulopexy in the BOR Syndrome ..... 1186

## N

***Nasal Airflow Resistance***
Resistance to Respiratory Airflow of the Extrapulmonary Airways ..... 447

***Nasal Airway Resistance to Airflow***
Nasal Mucosal Congestion After Treatment With Bromocriptine ..... 1142

***Nasal Airway Size***
Nasal Airway Size in Cleft and Noncleft Children ..... 915

***Nasal Endoscopy***
Importance of Preoperative Nasal Endoscopy in Patients With Sinonasal Disease ..... 512

***Nasal Mucosa***
Role of Fenestrated Vessels for the Secretory Process in the Nasal Mucosa: A Histologic and Transmission Electron Microscopic Study in the Rabbit ..... 1255

***Nasal Resistance***
Snoring and Nasal Resistance During Sleep ..... 918

***Nasal Secretions***
Quantitative Cytology of Nasal Secretions Under Various Conditions ..... 533

***Nasofrontal Duct Obliteration***
Use of Bone for Obliteration of the Nasofrontal Duct With the Osteoplastic Flap: A Cat Model ..... 883

***Nd:YAG Laser***
Excision of Rhinophyma With Nd:YAG Laser: A New Technique ..... 101
Real-Time Intraoperative Ultrasonography as a Monitoring Technique for Nd:YAG-Laser Palliation of Unresectable Head and Neck Tumors: Initial Experience ..... 559

***Neck Needle Foreign Bodies***
Neck Needle Foreign Bodies in Intravenous Drug Abusers ... 59

***Neonatal Middle Ear***
Abnormalities of the Neonatal Ear: Otoscopic Observations, Histologic Observations, and a Model for Contamination of the Middle Ear by Cellular Contents of Amniotic Fluid ..... Suppl. 58

***Neo-Oval Window Technique***
Neo-Oval Window Technique and Myringo-Chorda-Vestibulopexy in the BOR Syndrome ..... 1186

***Neovascularized Bone***
Resistance to Osteoradionecrosis in Neovascularized Bone 1168

***Nerve Branching Pattern***
Technique for Displaying the Entire Nerve Branching Pattern of a Whole Muscle: Results in 10 Canine Posterior Cricoarytenoid Muscles ..... 141

***Nerve Excitability Test***
Nerve Excitability Testing: Technical Pitfalls and Threshold Norms Using Absolute Values ..... 379

***Nerve Growth Factor***
Rabbit Facial Nerve Regeneration in NGF-Containing Silastic Tubes ..... 548

***Neurogenic Dysfunction***
Clinical Differentiation Between Vocal Cord Paralysis and Vocal Cord Fixation Using Electromyography ..... 133

***Neurologic Paraneoplastic Syndromes***
Neurologic Paraneoplastic Syndromes With Neurotologic Manifestations ..... 754

***Neurotologic Skull Base Surgery***
Neurotologic Skull Base Surgery for Glomus Tumors ...Suppl. 60

***Neutrophil Chemotaxis***
Effect of Tonsillectomy and Adenoidectomy on Neutrophil Chemotaxis ..... 1349

***Nodal Size***
Nodal Size of Metastatic Squamous Cell Carcinoma of the Neck ..... 854

***Nodular Melanoma***
Lentigo Maligna Melanoma of the Head and Neck ..... 520

***Noise Exposure***
Noise Exposure in the Rural Setting ..... 258

***Non-Hodgkin's Lymphoma***
Lymphoma of the Parotid Gland ..... 17

***Nonstented Platysma Myocutaneous Door Flap***
Use of the Platysma Myocutaneous Flap for Cervical Trachea Reconstruction: An Experimental Study in Dogs ..... 1161

***Nonwound Infections***
Nonwound Infections Following Head and Neck Oncologic Surgery ..... 22

***Nucleic Acid Synthesis***
Polymerase Chain Reaction Amplification of DNA From Cel-

loidin-Embedded Human Temporal Bone Sections ..... 583

***Nystagmus***
Patient Use of 'Telemetric' ENG to Register Nystagmus in the Private Sphere ..... 704

**O**

***Obstructive Sleep Apnea***
Determining the Site of Airway Collapse in Obstructive Sleep Apnea With Airway Pressure Monitoring ..... 1126
Transpalatal Advancement Pharyngoplasty for Obstructive Sleep Apnea ..... 269

***Occult Papillary Carcinoma***
Nonpalpable Occult and Metastatic Papillary Thyroid Carcinoma ..... 149

***Olfactory Epithelium***
Endoscopic Human Olfactory Biopsy Technique: A Preliminary Report ..... 815

***Oncogenes***
Oncogenes in Head and Neck Cancer ..... 42

***Oncologic Surgery***
Nonwound Infections Following Head and Neck Oncologic Surgery ..... 22

***One-Way Speaking Valve***
Passy-Muir® Tracheostomy Speaking Valve on Ventilator-Dependent Patients ..... 653

***Only-Hearing Ear***
Treatment of an Acoustic Neuroma in an Only-Hearing Ear: Case Reports and Considerations for the Future ..... 976

***Orbital Cellulitis***
Subperiosteal Orbital Abscess in Children: Diagnosis, Microbiology, and Management ..... 28

***Orbital Ischemia***
Clinical Signs of Orbital Ischemia in Rhino-Orbitocerebral Mucormycosis ..... 1357

***Orbital Reconstruction***
Temporoparietal Fascial Flap in Orbital Reconstruction ... 931

***Oropharynx***
Penetrating Trauma of the Oropharynx in Children ..... 991

***Orthotopic Laryngeal Transplantation***
Orthotopic Laryngeal Transplantation: Is It Time? ..... 857

***Osseointegrated Titanium Implants***
Stabilization of Craniofacial Prostheses Using Osseointegrated Titanium Implants ..... 1399

***Ossicular Reconstruction***
Composite TORPS and PORPS for Ossicular Reconstruction 94

***Ossification Patterns***
Ossification Patterns of the Tympanic Facial Canal in the Human Fetus and Neonate ..... 1052

***Osteopetrosis***
Facial Nerve Dysfunction in Osteopetrosis ..... 494

***Osteoplastic Flap***
Use of Bone for Obliteration of the Nasofrontal Duct With the Osteoplastic Flap: A Cat Model ..... 883

***Osteoradionecrosis***
Intraoperative Versus Interstitial Radiotherapy: A Comparison of Morbidity in the Head and Neck ..... 231
Resistance to Osteoradionecrosis in Neovascularized Bone 1168
Role of Hyperbaric Oxygen Therapy in the Management of Mandibular Osteoradionecrosis ..... 605

***Ostiomeatal Complex***
Cutting the Middle Meatal Window ..... 1179

***Otoacoustic Emissions***
Otoacoustic Emissions in Full-Term Newborns at Risk for Hearing Loss ..... 1334

***Otolaryngology Manpower***
Otolaryngology Manpower in the Year 2010 ..... 750

***Otorrhea***
Tympanostomy Tubes: Experience With Removal ..... 659

***Otosclerosis***
Revision Stepedectomy ..... 954

***Otosclerosis Regrowth***
Otosclerosis Regrowth ..... 1383

***Ototoxins***
Galvanically-Induced Vestibulo-Ocular Reflex in the Cat ... 1108

**P**

***Paragangliomas***
Neurovascular Considerations in Surgery of Glomus Tumors With Intracranial Extensions ..... 722

***Paranasal Sinus Abnormalities***
Coronal CT Abnormalities in Children With Chronic Sinusitis ..... 985

***Paraneoplastic Syndromes***
Neurologic Paraneoplastic Syndromes With Neurotologic Manifestations ..... 754

***Parietal Bone Graft***
Parietal Bone Graft and Titanium Plate Fixation in Nasal Reconstruction ..... 1066

***Parotid Gland***
Lymphoma of the Parotid Gland ..... 17

***Parotid Gland Tumors***
Facial Nerve Morbidity Following Parotid Surgery for Benign Disease: The Cleveland Clinic Foundation Experience ... 386

***Partial Cricoid Resection***
Partial Cricoid Resection With Primary Tracheal Anastomosis for Subglottic Stenosis in Infants and Children 1273

***Passy-Muir Tracheostomy Speaking Valve***
Passy-Muir® Tracheostomy Speaking Valve on Ventilator-Dependent Patients ..... 653

***Peak Pharyngeal Pressures***
Effect of Cricopharyngeus Myotomy on Postlaryngectomy Pharyngeal Contraction Pressures ..... 138

***Pediatric Adipose Myringoplasty***
Adipose Myringoplasty in Children ..... 216

***Pediatric FESS***
Functional Endoscopic Surgery in Children: A Retrospective Analysis of Results ..... 899

***Pediatric Head Trauma***
Peripheral Hearing Loss Following Head Trauma in Children 87

***Pediatric Middle Ear Disease***
Middle Ear Disease in Young Children With Sensorineural

Hearing Loss ..... 371

***Pediatric Nasal Deformities***
Nasal Airway Size in Cleft and Noncleft Children ..... 915

***Pediatric Oropharyngeal Injuries***
Penetrating Trauma of the Oropharynx in Children ..... 991

***Pediatric Sinus Anomalies***
Nasal and Paranasal Sinus Anomalies in Children With Chronic Sinusitis ..... 247

***Pediatric Sinusitis***
Functional Endonasal Sinus Surgery in Adults and Children 1

***Penetrating Trauma***
Penetrating Trauma of the Oropharynx in Children ..... 991

***Pentoxifylline***
Pharmacologic Manipulation of Random Skin Flaps With Pentoxifylline ..... 185

***Perennial Allergic Rhinitis***
Role of $H_2$ Antagonists in Perennial Allergic Rhinitis ..... 1013

***Perichondrium Cartilage Composite Grafts***
Composite Graft Tympanoplasty in the Treatment of Ears With Advanced Middle Ear Pathology ..... 1352

***Perilymphatic Fistula***
Congenital Perilymphatic Fistula and Associated Middle Ear Abnormalities ..... 160
Magnetic Resonance Imaging of Perilymphatic Fistula .... 729

***Perioperative Antibiotics***
Nonwound Infections Following Head and Neck Oncologic Surgery ..... 22

***Peripheral Hearing Loss***
Peripheral Hearing Loss Following Head Trauma in Children 87

***Peritubal Adenoidectomy***
Peritubal Adenoidectomy ..... 1291

***Petroclival Lesions***
Extended Middle Fossa Resection of Petroclival and Cavernous Sinus Neoplasms ..... 693

***Pharyngocutaneous Fistula***
Effect of Cricopharyngeus Myotomy on Postlaryngectomy Pharyngeal Contraction Pressures ..... 138
Radiologic Assessment of the Early Postoperative Total-Laryngectomy Patient ..... 1157

***Pharyngolaryngectomy***
Primary Reconstruction of the Hypopharynx Following Pharyngolaryngectomy ..... 338

***Phonosurgery***
Complications of Laryngeal Framework Surgery (Phonosurgery) ..... 525

***Photodynamic Therapy***
Photodynamic Therapy for Treatment of Esophageal Cancer: A Preliminary Report ..... 699
Photodynamic Therapy of Human Squamous Cell Carcinoma In Vitro and in Xenografts in Nude Mice ..... 967

***Photofrin-II®***
Photodynamic Therapy of Human Squamous Cell Carcinoma In Vitro and in Xenografts in Nude Mice ..... 967

***Photosensitizing Agents***
Pitfalls in Evaluation of Photosensitizing Agents: An Example With Q-Switch II Dye ..... 1284

***Physician Distribution***
Otolaryngology Manpower in the Year 2010 ..... 750

***Plasminogen Activator***
Fibrin Binding, Fibrinolytic and Fibrinogenolytic Activity of Plasminogen Activator Derived From the Paranasal Mucous Membrane of Humans ..... 197

***Platelet-Activating Factor***
Inhalation of Platelet-Activating Factor Increases Respiratory Resistance in Rats: Determination by Means of an Astograph Under Nonanesthetized Conditions ..... 428

***Platysma Myocutaneous Flap***
Use of the Platysma Myocutaneous Flap for Cervical Trachea Reconstruction: An Experimental Study in Dogs ..... 1161

***Polymerase Chain Reaction***
Polymerase Chain Reaction Amplification of DNA From Celloidin-Embedded Human Temporal Bone Sections ..... 583
Polymerase Chain Reaction (PCR) Identification of Human Papillomavirus (HPV) DNA in Verrucous Carcinoma of the Larynx ..... 416

***Polyposis***
Endoscopic Sinus Surgery: 4-Year Follow-up on the First 100 Patients ..... 1117

***Positive Surgical Margins***
Implications of Positive Surgical Margins ..... 64

***Posterior Cricoarytenoid Muscle***
Technique for Displaying the Entire Nerve Branching Pattern of a Whole Muscle: Results in 10 Canine Posterior Cricoarytenoid Muscles ..... 141
Three Bellies of the Canine Posterior Cricoarytenoid Muscle: Implications for Understanding Laryngeal Function ..... 171

***Post-Tonsillectomy Pain***
Comparison of Two Methods of Tonsillectomy ..... 619

***Posturography***
Clinical Comparisons of Posturography and Electronystagmography ..... 713

***Prednisone***
Idiopathic Facial Nerve Paralysis: A Randomized Double Blind Controlled Study of Placebo Versus Prednisone .... 1326

***Primary Ciliary Dyskinesia***
Treatment for Primary Ciliary Dyskinesia: Efficacy of Functional Endoscopic Sinus Surgery ..... 1269

***Proliferating Cell Nuclear Antigen***
DNA Analysis of Head and Neck Squamous Cell Carcinoma by Flow Cytometry ..... 637

***Propylthiouracil***
Hyperparathyroidism Induced by Hypothyroidism ..... 263

***Pulmonary Function***
Improvements in the Assessment of Pulmonary Function in Laryngectomized Patients ..... 1391

***Pyriform Sinus Cancer***
Hemipharyngectomy and Hemilaryngectomy for Pyriform Sinus Cancer: Reconstruction With Remaining Larynx and Hypopharynx and With Tracheostomy ..... 82
Supracricoid Hemilaryngopharyngectomy in Selected Pyriform Sinus Carcinoma Staged as T2 ..... 1373

## Q

***Q-Switch II Dye***

Pitfalls in Evaluation of Photosensitizing Agents: An Example With Q-Switch II Dye ..... 1284

***Quantitative Cytology***

Quantitative Cytology of Nasal Secretions Under Various Conditions ..... 533

## R

***Rabbit Facial Nerve***

Rabbit Facial Nerve Regeneration in NGF-Containing Silastic Tubes ..... 548

***Radiation Therapy***

Clinical Staging for Primary Malignancies of the Supraglottic Larynx ..... 69

Neurotologic Skull Base Surgery for Glomus Tumors ...Suppl. 60

Role of Radiation Therapy in the Management of Carcinoma In Situ of the Larynx ..... 663

***Radioallergosorbent Test***

Evidence of IgE-Mediated Hypersensitivity in Allergic Fungal Sinusitis ..... 717

***Random Flaps***

Subcutaneous Pedicled Extension Flap: A New Development in Random Flaps ..... 1293

***Rat Allografts***

Effects of Cyclosporin A on Transplanted Rat Allografts ... 394

***Rat Cochlea***

Localization of Glucocorticoid Receptors and Glucocorticoid Receptor mRNAs in the Rat Cochlea ..... 865

***Rat Vestibular Complex***

Morphometric Analysis of the Vestibular Complex in the Rat 762

***Real-Time Ultrasonography***

Real-Time Intraoperative Ultrasonography as a Monitoring Technique for Nd:YAG-Laser Palliation of Unresectable Head and Neck Tumors: Initial Experience ..... 559

Role of Real-Time Ultrasonography in an Otolaryngology Office Setting ..... 570

***Rebound Caloric Nystagmus***

Rebound Caloric Nystagmus ..... 1205

***Recurrent Laryngeal Nerves***

Electronic Control of Laryngeal Spasm. II. Selective Blockage of Glottic Adduction by a Closed-Loop Circuit in the Canine ..... 734

***Recurrent Squamous Cell Carcinoma***

Fine Needle Aspiration (FNA) in Diagnosing Recurrent Squamous Cell Carcinoma of the Head and Neck: Truth or Consequences? ..... 1073

***Reissner's Membrane***

Primary Culture of Reissner's Membrane From the Gerbil: Growth, Morphologic Features, and Characterization .... 645

***Respiratory Airflow***

Laryngeal Resistance to Respiratory Airflow in Humans .. 785

***Respiratory Resistance***

Inhalation of Platelet-Activating Factor Increases Respiratory Resistance in Rats: Determination by Means of an Astograph Under Nonanesthetized Conditions ..... 428

***Retraction Pockets***

Cartilage Tympanoplasty for Management of Retraction Pockets and Cholesteatomas ..... 614

***Revision Stapedectomy***

Revision Stapedectomy ..... 954

***Rhabdomyosarcoma***

Rhabdomyosarcoma of the Head and Neck in Adults: A Study of 26 Patients ..... 1362

***Rhinomanometry***

Resistance to Respiratory Airflow of the Extrapulmonary Airways ..... 447

***Rhino-Orbitocerebral Mucormycosis***

Clinical Signs of Orbital Ischemia in Rhino-Orbitocerebral Mucormycosis ..... 1357

***Rhinophyma***

Excision of Rhinophyma With Nd:YAG Laser: A New Technique ..... 101

***Rodent Skin Flaps***

Hemodynamics of the Rodent Abdominal Skin Flap Following Primary Ischemia ..... 981

***Round Window Niche***

Bony Dehiscence Between Singular Canal and Round Window Niche ..... 78

***Rural Noise Exposure***

Noise Exposure in the Rural Setting ..... 258

## S

***Salicylate***

Salicylate-Induced Changes in Cat Auditory Nerve Activity 600

***Seasonal Epiglottitis***

Acute Epiglottitis in the Adult: Experience With a Seasonal Presentation ..... 841

***Secondary Phase Nystagmus***

Rebound Caloric Nystagmus ..... 1205

***Sedlačeк-Kambič-Tucker Epiglottic Flap***

Revision Surgery for Sedlacek-Kambic-Tucker Epiglottic Laryngoplasty ..... 820

***Sensorineural Hearing Loss***

Inner Ear-Specific Autoantibodies ..... 319

Middle Ear Disease in Young Children With Sensorineural Hearing Loss ..... 371

Sensorineural Hearing Loss Associated With Aortocoronary Bypass Surgery: A Prospective Analysis ..... 589

***Serologic Determinants of Survival***

Serologic Determinants of Survival in Patients With Head and Neck Cancer: Validating a Clinical Prediction Model 13

***SIDS***

Effects of Acid on the Larynx of the Maturing Rabbit and Their Possible Significance to the Sudden Infant Death Syndrome ..... 1242

***Silastic Tubes***

Rabbit Facial Nerve Regeneration in NGF-Containing Silastic Tubes ..... 548

***Singular Canal***

Bony Dehiscence Between Singular Canal and Round Window Niche ..... 78

***Sinonasal Disease***
Importance of Preoperative Nasal Endoscopy in Patients With Sinonasal Disease ..... 512

***Sinonasal Surgery***
Endoscopic Frontal Recess and Frontal Sinus Ostium Dissection ..... 455

***Sinus Histiocytosis***
Prognostic Significance of Sinus Histiocytosis in Metastatic Laryngeal Cancer ..... 498

***Sinusitis***
Coronal CT Abnormalities in Children With Chronic Sinusitis ..... 985
Effect of a Topical Vasoconstrictor on Computed Tomography of Paranasal Sinus Disease ..... 6
Functional Endonasal Sinus Surgery in Adults and Children 1
Subperiosteal Orbital Abscess in Children: Diagnosis, Microbiology, and Management ..... 28

***Skin Flap Survival***
Pharmacologic Manipulation of Random Skin Flaps With Pentoxifylline ..... 185

***Skull Base Tumors***
Facial Nerve Management in Cranial Base Surgery ..... 291

***Sleep Apnea***
Snoring and Nasal Resistance During Sleep ..... 918

***Sleeve Resection***
Treatment of the Compromised Trachea With Sleeve Resection and Primary Repair ..... 203

***Snoring***
Snoring and Nasal Resistance During Sleep ..... 918

***Soft Palate Carcinoma***
Significance of Tumor Thickness in Soft Palate Carcinoma 389

***Soft-Tissue Malignant Tumors***
Rhabdomyosarcoma of the Head and Neck in Adults: A Study of 26 Patients ..... 1362

***Spiral Modiolar Vein***
Development of High Endothelial Venule-Like Characteristics in the Spinal Modiolar Vein Induced by Viral Labyrinthitis ..... 890

***Spontaneous Nystagmus***
Irritative Spontaneous Nystagmus Following Intratympanic Gentamicin for Meniere's Disease ..... 745

***Spring Implants***
Gold Weight or Spring Implants and MRI ..... 930

***Squamous Cell Carcinoma***
DNA Analysis of Head and Neck Squamous Cell Carcinoma by Flow Cytometry ..... 637
Implications of Positive Surgical Margins ..... 64
Increased Cytotoxicity of Squamous Cell Carcinoma of the Head and Neck by Combining Cisplatin With VP-16 and Ciprofloxacin ..... 1081
Localization of Interleukin-1 in Human Squamous Cell Carcinomas of the Head and Neck ..... 529
Nodal Size of Metastatic Squamous Cell Carcinoma of the Neck ..... 854
Oncogenes in Head and Neck Cancer ..... 42
Photodynamic Therapy of Human Squamous Cell Carcinoma In Vitro and in Xenografts in Nude Mice ..... 967
Prognostic Significance of Sinus Histiocytosis in Metastatic Laryngeal Cancer ..... 498
Prognostic Value of Histopathological Parameters in 51 Supraglottic Squamous Cell Carcinomas ..... 538
Squamous Cell Carcinoma in HIV-Positive Patients Under Age 45 ..... 509

***Stapedectomy***
Revision Stapedectomy ..... 954
Otosclerosis Regrowth ..... 1383

***Stapedial Luxation***
Manipulating the Mobile Stapes During Tympanoplasty: The Risk of Stapedial Luxation ..... 668

***Streptococcus Pyogenes***
Effect of Specific Bacteria on Lymphocyte Proliferation in Diseased and Nondiseased Tonsils ..... 1020

***Subcutaneous Pedicled Extension Flap***
Subcutaneous Pedicled Extension Flap: A New Development in Random Flaps ..... 1293

***Subglottic Stenosis***
Does Early Expansion Surgery Have a Role in the Management of Congenital Subglottic Stenosis? ..... 286
Partial Cricoid Resection With Primary Tracheal Anastomosis for Subglottic Stenosis in Infants and Children 1273

***Suboccipital Vestibular Neurectomy***
Suboccipital Vestibular Neurectomy: Results and Complications ..... 936

***Subperiosteal Abscess***
Subperiosteal Orbital Abscess in Children: Diagnosis, Microbiology, and Management ..... 28

***Subtotal Thyroidectomy***
Role of Subtotal Thyroidectomy in the Management of the Follicular Neoplasm of the Thyroid ..... 477

***Sudden Deafness***
Outcome of Sudden Deafness With and Without Vertigo ... 1145

***Sudden Hearing Loss***
Sudden Hearing Loss Induced by Acoustic Neuroma: Significance of Small Cell Tumors ..... 308

***Sudden Infant Death Syndrome***
Cholinergic Agents in the Laryngeal Chemoreflex Model of Sudden Infant Death Syndrome ..... 623

***Summating Potential***
Intrasubject Test-Retest Variability in Clinical Electrocochleography ..... 963

***Superficial Spreading Melanoma***
Lentigo Maligna Melanoma of the Head and Neck ..... 520

***Superior Laryngeal Nerve***
Determination of Vocal Fold Mucosal Wave Velocity in an In Vivo Canine Model ..... 947

***Supracricoid Hemilaryngopharyngectomy***
Supracricoid Hemilaryngopharyngectomy in Selected Pyriform Sinus Carcinoma Staged as T2 ..... 1373

***Supraglottic Cancer***
Clinical Staging for Primary Malignancies of the Supraglottic Larynx ..... 69
Prognostic Value of Histopathological Parameters in 51 Supraglottic Squamous Cell Carcinomas ..... 538

***Surface Temperature Restoration***
Controlling the Caloric Laryrinthine Stimulus: Restoring Surface Temperature ..... 679

***Synthetic Hoarse Voice***
Analysis-by-Synthesis Approach to the Estimation of Vocal Cord Polyp Features ..... 1035

**T**

***T Lymphocytes***
Differences in Dendritic Cells in Congenital and Acquired Cholesteatomas ..... 1214

***'Telemetric' ENG***
Patient Use of 'Telemetric' ENG to Register Nystagmus in the Private Sphere ..... 704

***Temporal Arteritis***
Meniere's Syndrome: An Atypical Presentation of Giant Cell Arteritis (Temporal Arteritis) ..... 1103

***Temporal Bones***
Abnormalities of the Neonatal Ear: Otoscopic Observations, Histologic Observations, and a Model for Contamination of the Middle Ear by Cellular Contents of Amniotic Fluid ..... Suppl. 58
Polymerase Chain Reaction Amplification of DNA From Celloidin-Embedded Human Temporal Bone Sections ..... 583
Reclassification of Aggressive Adenomatous Mastoid Neoplasms as Endolymphatic Sac Tumors ..... 1342
Symptomatic Versus Asymptomatic Endolymphatic Hydrops: A Histopathologic Comparison ..... 277
Temporal Bone Histopathology 14 Years After Cytomegalic Inclusion Disease: A Case Study ..... 904
Three-Dimensional Reconstruction of the Temporal Bone From a Case of E Trisomy Syndrome ..... 541

***Temporoparietal Fascial Flap***
Temporoparietal Fascial Flap in Orbital Reconstruction ... 931

***Tensor Veli Palatini***
Computed Tomography, Magnetic Resonance Imaging, and Electromyographic Studies of Tensor Veli Palatini Muscles in Patients With Nasopharyngeal Carcinoma ..... 673
Electromyographic Recording of Tensor and Levator Veli Palatini Muscles: A Modified Transnasal Insertion Method 459
Motor Innervation of the Eustachian Tube Muscles in the Guinea Pig ..... 1218

***Thermal Labyrinthine Stimulus***
Controlling the Caloric Labyrinthine Stimulus: Restoring Surface Temperature ..... 679

***3-D Reconstruction***
Computer-Aided 3-D Reconstruction and Measurement of the Facial Canal and Facial Nerve. I. Cross-Sectional Area and Diameter: Preliminary Report ..... 1150
Facial Nerve Near the External Auditory Meatus in Man: Computer Reconstruction Study—Preliminary Report ... 1043
Three-Dimensional Reconstruction of the Temporal Bone From a Case of E Trisomy Syndrome ..... 541

***3-D Video Imaging***
Three-Dimensional Video Imaging in Otolaryngology—Head and Neck Surgery ..... 1174

***Thyroid Cartilage Flap***
Laryngeal Reconstruction Following Vertical Partial Laryngectomy ..... 109

***Thyroid Gland***
DNA- and Viral-Mediated Gene Transfer in Follicular Cells: Progress Toward Gene Therapy of the Thyroid ..... 1084

***Thyroid Lymphoma***
Hashimoto's Thyroiditis and Carcinoma of the Thyroid: Optimal Management ..... 845

***Thyroid Nodules***
Role of Subtotal Thyroidectomy in the Management of the Follicular Neoplasm of the Thyroid ..... 477

***Thyroid Tumors***
Hyperparathyroidism Induced by Hypothyroidism ..... 263

***Tinnitus***
Salicylate-Induced Changes in Cat Auditory Nerve Activity 600
Vascular Decompression Surgery for Severe Tinnitus: Selection Criteria and Results ..... 421

***Tissue Adhesives***
Effects of Cyanoacrylate Tissue Adhesives on Cartilage Graft Viability ..... 798

***Tissue Welding***
Comparison of Suture Versus Laser-Assisted Microvascular Anastomosis (LAMA) in the Pig Buttock Flap Model .... 1002

***Titanium Plate Fixation***
Parietal Bone Graft and Titanium Plate Fixation in Nasal Reconstruction ..... 1066

***Tongue Reconstruction***
Tongue Reconstruction: Concepts and Practice ..... 1132

***Tonsillar Tissue Lymphocyte***
Effect of Specific Bacteria on Lymphocyte Proliferation in Diseased and Nondiseased Tonsils ..... 1020

***Tonsillectomy***
Comparison of Two Methods of Tonsillectomy ..... 619
Effect of Tonsillectomy and Adenoidectomy on Neutrophil Chemotaxis ..... 1349
Microsurgical Bipolar Cautery Tonsillectomy ..... 1177

***Topodiagnosis***
Vestibular Decruitment: An Indicator of Central Pathology? 793

***Topoisomerase III***
Increased Cytotoxicity of Squamous Cell Carcinoma of the Head and Neck by Combining Cisplatin With VP-16 and Ciprofloxacin ..... 1081

***Total Glossectomy***
Modified Epiglottoplasty for Prevention of Aspiration ..... 1395

***Total Laryngectomy***
Improvements in the Assessment of Pulmonary Function in Laryngectomized Patients ..... 1391
Radiologic Assessment of the Early Postoperative Total-Laryngectomy Patient ..... 1157

***Total Serum Calcium***
Ionized Serum Calcium Levels Following Combined Treatment for Cancer of the Head and Neck ..... 1048

***Total Thyroidectomy***
Nonpalpable Occult and Metastatic Papillary Thyroid Carcinoma ..... 149

***Tracheal Reconstruction***
Experimental Reconstruction of Anterior and Circumferential Defects of the Cervical Trachea ..... 1259

***Tracheal Stenosis***
Treatment of the Compromised Trachea With Sleeve Resection and Primary Repair ..... 203

***Tracheoesophageal Puncture***
Technique of Tracheoesophageal Puncture Using Flexible Fiberoptic Esophagoscopy ..... 928

***Tracheostomy***
Hemipharyngectomy and Hemilaryngectomy for Pyriform Sinus Cancer: Reconstruction With Remaining Larynx and Hypopharynx and With Tracheostomy ..... 82

***Tracheostomy Tubes***
Airway Resistance and Work of Breathing in Tracheostomy Tubes ..... 1367

***Tracheotomy***
Does Early Expansion Surgery Have a Role in the Management of Congenital Subglottic Stenosis? ..... 286

***Tractor Noise***
Noise Exposure in the Rural Setting ..... 258

***Translabyrinthine Vestibular Nerve Section***
Surgery for Vertigo in the Nonserviceable Hearing Ear: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section ..... 1321

***Transmission Electron Microscopy***
Role of Fenestrated Vessels for the Secretory Process in the Nasal Mucosa: A Histologic and Transmission Electron Microscopic Study in the Rabbit ..... 1255

***Transpalatal Advancement Pharyngoplasty***
Transpalatal Advancement Pharyngoplasty for Obstructive Sleep Apnea ..... 269

***Traveling Wave Velocity***
Determination of Vocal Fold Mucosal Wave Velocity in an In Vivo Canine Model ..... 947

***Tumor Thickness***
Significance of Tumor Thickness in Soft Palate Carcinoma 389

***Tumor Volume***
Acoustic Neuroma Volume: MRI-Based Calculations and Clinical Implications ..... 1093

***Tympanic Facial Canal***
Ossification Patterns of the Tympanic Facial Canal in the Human Fetus and Neonate ..... 1052

***Tympanic Membrane***
Safe, Effective Anesthetic Technique for Outpatient Myringotomy Tube Placement ..... 92

***Tympanic Membrane Perforation***
Direct Application of Basic Fibroblast Growth Factor Improves Tympanic Membrane Perforation Healing ..... 804

Histological Study of the Healing of Traumatic Tympanic Membrane Perforation After Basic Fibroblast Growth Factor Application ..... 312

***Tympanoplasty***
Composite Graft Tympanoplasty in the Treatment of Ears With Advanced Middle Ear Pathology ..... 1352

Manipulating the Mobile Stapes During Tympanoplasty: The Risk of Stapedial Luxation ..... 668

***Tympanostomy Tubes***
Tympanostomy Tubes: Experience With Removal ..... 659

## U

***Upper Airway Resistance***
Laryngeal Resistance to Respiratory Airflow in Humans .. 785

***Urokinase***
Fibrin Binding, Fibrinolytic and Fibrinogenolytic Activity of Plasminogen Activator Derived From the Paranasal Mucous Membrane of Humans ..... 197

***Uvulopalatopharyngoplasty***
Determining the Site of Airway Collapse in Obstructive Sleep Apnea With Airway Pressure Monitoring ..... 1126

Transpalatal Advancement Pharyngoplasty for Obstructive Sleep Apnea ..... 269

## V

***Vascular Decompression Surgery***
Vascular Decompression Surgery for Severe Tinnitus: Selection Criteria and Results ..... 421

***Vasoactive Intestinal Polypeptide***
Nasal Mucosal Congestion After Treatment With Bromocriptine ..... 1142

***Vasoconstrictors***
Effect of a Topical Vasoconstrictor on Computed Tomography of Paranasal Sinus Disease ..... 6

***Velopharyngeal Insufficiency***
Costochondral Pharyngeal Implants for Velopharyngeal Insufficiency ..... 565

***Verrucous Carcinoma***
Polymerase Chain Reaction (PCR) Identification of Human Papillomavirus (HPV) DNA in Verrucous Carcinoma of the Larynx ..... 416

Verrucous Carcinoma of the Larynx: Role of Human Papillomavirus, Radiation, and Surgery ..... 253

***Vertical Hemilaryngectomy***
Methodological Study of Hemilaryngeal Phonation ..... 872

***Vertical Partial Laryngectomy***
Laryngeal Reconstruction Following Vertical Partial Laryngectomy ..... 109

***Vertigo***
Outcome of Sudden Deafness With and Without Vertigo ... 1145

Surgery for Vertigo in the Nonserviceable Hearing Ear: Transmastoid Labyrinthectomy or Translabyrinthine Vestibular Nerve Section ..... 1321

***Vestibular Complex***
Morphometric Analysis of the Vestibular Complex in the Rat 762

***Vestibular Decruitment***
Vestibular Decruitment: An Indicator of Central Pathology? 793

***Vestibular Neurectomy***
Suboccipital Vestibular Neurectomy: Results and Complications ..... 936

***Viral Labyrinthitis***
Development of High Endothelial Venule-Like Characteristics in the Spinal Modiolar Vein Induced by Viral Labyrinthitis ..... 890

***Vocal Cord Polyps***
Analysis-by-Synthesis Approach to the Estimation of Vocal Cord Polyp Features ..... 1035

***Vocal Fold Mucosal Wave***
Determination of Vocal Fold Mucosal Wave Velocity in an In Vivo Canine Model ..... 947

***Voice Improvement***
Botulinum Toxin Injection for Adductor Spastic Dysphonia: Patient Self-Ratings of Voice and Phonatory Effort After Three Successive Injections ..... 683

***Voice Restoration***
Free Jejunal Autografts for Immediate Voice Restoration Following Laryngectomy ..... 96

**W**

***Western Blotting***
Inner Ear-Specific Autoantibodies ..... 319

***Work of Breathing***
Airway Resistance and Work of Breathing in Tracheostomy Tubes ..... 1367

***Wound Healing***
Histological Study of the Healing of Traumatic Tympanic Membrane Perforation After Basic Fibroblast Growth Factor Application ..... 312

**Y**

***Young HIV-Positive Patients***
Squamous Cell Carcinoma in HIV-Positive Patients Under Age 45 ..... 509